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POSTFLIGHT TRAJECTORY REASSEMBLY

AC-6

GDC-BTD66-012

18 February 1966

GENERAL DYNAMICS

Convair Division

POSTFLIGHT TRAJECTORY REASSEMBLY

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Contract NAS3-3232

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FOREWORD

This report presents the results of a postflight trajectory reassembly of Atlas/Centaur flight AC-6. AC-6 was launched from the Eastern Test Range, Complex 36B, at 0931 hours EST on 11 August 1965.

The reassembly analysis is confined primarily to those systems and parameters having major influence on trajectory design and on payload capability. The analysis and documentation was performed in compliance with Item 129 of the Centaur Documentation Requirements Plan, Contract NAS3-3232.

SUMMARY

This report presents the results of a trajectory reassembly of Atlas/Centaur flight AC-6. The reassembly covers the portion of flight from liftoff through Centaur retro-maneuver. The reassembly is based on perturbing vehicle systems parameters in a detailed trajectory simulation to effect a close match of flight-measured position and velocity data throughout the simulation. The ultimate purpose of these data is to establish accurately the vehicle performance capability and to improve the accuracy of the trajectory design for succeeding vehicles. The analysis stresses those systems that have the greatest effect on trajectory design and payload capability.

It is emphasized that this flight is only one in a series, and the data obtained are only a fraction of that required for statistical evaluation of net vehicle performance capability.

Net Atlas/Centaur performance was better than predicted. This was the result of better-than-nominal Atlas-stage performance (but less-than-nominal Centage-stage performance). Surveyor mission payload capability, calculated using flight-determined residuals, is 20 pounds greater than the predicted mean payload capability (see Section 7.1).

The Atlas-stage trajectory was higher and faster than the preflight-predicted. This was due primarily to higher-than-nominal booster and sustainer thrust, and lower-than-predicted booster phase drag. Booster and sustainer engine thrusts were 1100 and 1450 pounds greater than predicted, respectively.

A revised Atlas drag model (Section 7.6) was incorporated in the AC-6 reassembly in order to better simulate the booster phase drag. This model (similar to the AC-4 reassembly drag model) has been adopted for use in current Atlas/Centaur preflight simulations. In this model, the booster phase base force has been revised based on flight data and separated into two components. One component is a function of dynamic pressure and the other is a function of ambient pressure ratio. The forebody drag coefficient is the same as that previously used. Also considered part of the revised drag model is a holddown force that is simulated during the first few seconds after liftoff.

Centaur-stage performance was less than nominal. At Centaur main engine cutoff, the vehicle was low and slow, compared to the preflight trajectory, even through Atlas performance was better than nominal and Centaur burn time was longer than nominal. Centaur main engine thrust was 499 pounds low. Centaur main engine specific impulse was 1.3 seconds low.

The vehicle system parameters determined from the AC-6 reassembly are summarized in Table A. Vehicle system parameters used in the preflight simulation and engine log values are shown for comparison.

Spacecraft and Centaur-tank orbit data are summarized in Table B. No flight data for the Centaur tank orbit were available. Separation distance between the spacecraft and tank five hours after spacecraft separation from Centaur, as determined from the reassembly, was 1966 km.

Table A. Atlas/Centaur System Parameters

PARAMETER	PREFLIGHT SIMULATION	LOG OR ENGINE ACCEPTANCE VALUES	REASSEMBLY	DEVIATION (REASSEMBLY MINUS PREFLIGHT SIMULATION)	PREDICTED 3σ DISPERSION
Atlas Propulsion (Altitude Reference Conditions)					
Booster Thrust (lb)	375,804	374,207	376,910	+1,106	±3,000
Booster I_{sp} (sec)	289.91	289.52	287.44	-2.47	±2.4
Booster Mixture Ratio (LO_2/RP-1)	2.278	2.290	2.264	-0.014	±0.023
(Sea Level Reference Conditions)					
Sustainer Thrust (lb)	57,000	57,000	58,449	+1,449	±855
Sustainer Plus Vernier I_{sp} (sec)	214.41	213.2	218.52	+4.1	±2.8
Sustainer Plus Vernier Mixture Ratio (LO_2/RP-1)	2.27	2.27	2.27	0	Not Available
Atlas Autopilot					
Booster Pitch Factor	1.000	--	1.014	+0.014	±0.050
Booster Roll (deg)	20.461	--	20.193	-0.268	±2.0
Centaur Propulsion (Altitude Reference Conditions)					
Main Engines Thrust, Total (lb)	30,024	29,893	29,525	-499	±424
I_{sp} (sec)	432.93	434.78	431.6	-1.3	±3.54
Mixture Ratio (LO_2/LH_2)	4.968/1	5.016	- - - -	0	±2%

Table B. Orbit Data

PARAMETER	CENTAUR TANK		SPACECRAFT		
	PREFLIGHT[1]	REASSEMBLY[1]	PREFLIGHT[2]	REASSEMBLY[2]	FLIGHT [2][3]
Semimajor Axis (ft)	1,426,599,100	1,358,208,800	1,400,061,300	1,334,602,400	1,363,201,800
Eccentricity	0.98494887	0.98419073	0.98466136	0.98391106	0.98424758
Inclination (deg)	28.595885	28.559768	28.593421	28.557672	28.562167
Longitude of Ascending Node (deg)	358.92263	359.10143	358.92263	359.10143	359.08078
Argument of Perigee (deg)	131.04756	131.02614	131.03417	131.01514	131.00263
True Anomaly (deg)	0.93960006	0.79304000	-6.11391	-5.79552	-5.7576991

(1) Data epoch is end of Centaur retromaneuver

(2) Data epoch is end of Centaur main engine decay

(3) JPL orbit determination from S-band radar data

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SECTION 1

INTRODUCTION

This report presents the results of a trajectory reassembly of Atlas/Centaur flight AC-6. A trajectory reassembly is defined as a digital trajectory simulation for the flight vehicle which closely matches measured flight data. The purpose of such an analysis is to provide:

a. Statistical data for evaluation of net vehicle performance capability.

b. Comparison data to correct preflight simulation techniques or to indicate erroneous flight test data.

c. An alternate technique for determining system and vehicle performance.

d. Estimates of unmeasured trajectory parameters.

The Convair "COMBO Flight Program", Reference 1, is used to simulate Atlas/Centaur preflight and reassembly trajectories. COMBO is a general-purpose program to simulate the flight of a vehicle either powered or unpowered in the gravitational field of a central body. As used for vehicle AC-6, the program simulates a rotating oblate-earth model (up to and including the fourth harmonic), detailed Atlas propulsion, detailed Centaur guidance, and numerous other mission, vehicle, and flight system parameters as presented in References 2 and 3.

The trajectory reassembly of vehicle AC-6 used the PFAN-II program, Reference 4, in conjunction with COMBO to match closely the Best Estimate of Trajectory (BET) position and velocity generated by the Eastern Test Range. The PFAN-II program provides a least-squares match of trajectory parameters at various time points throughout a given phase of the vehicle flight by adjusting vehicle system parameters such as thrust, flow rate, and the pitch multiplication factor.

The AC-6 vehicle includes most of the system configurations associated with the operational Atlas/Centaur. The flight was designed to simulate the launch-time-dependent aspects of an operational Surveyor direct-ascent mission, and the ascent trajectory was targeted for lunar impact. However, the launch was restricted to daylight hours and launch times biased to preclude lunar encounter. Salient configuration changes between the AC-6 vehicle and previous Atlas/Centaur vehicles are

1. Change to the Centaur RL10A-3-1 engine system from the RL10A-3.

2. Incorporation of a propellant utilization system on the Centaur stage.

3. Atlas booster engines uprated to 165,000 pounds of thrust each from 154,500 pounds.

4. Atlas sustainer engine cutoff by propellant depletion instead of timed cutoff.

Trajectory reassemblies have also been performed for Atlas/Centaur flights AC-2, AC-3, and AC-4. As a result of these reassemblies and analyses connected with these reassemblies, the preflight simulation model has been revised to incorporate an improved Atlas drag model and to simulate Centaur thrust buildup. In addition, due to the lack of tracking data during re-entry, the AC-3 reassembly provided the only estimate of the re-entry phase. Also due to a lack of tracking data, the AC-6 reassembly provides the best estimate of the Centaur orbit after retromaneuver and hence of spacecraft separation from Centaur.

SECTION 2

PREFLIGHT TRAJECTORY

The preflight simulation used for a comparison is the best preflight simulation of the actual trajectory. It includes all information that can be determined from data measured prior to the flight, even though the analysis of that data might occur subsequent to the flight. The best preflight simulation will always include, when available, launch day atmospheric data (winds, pressure, and speed of sound) and launch day weights (which account for last-minute hardware changes and analysis of propellant loading data).

Nominal Centaur main engine thrust buildup, developed over a period of approximately 2 seconds, was also simulated in the best preflight simulation for AC-6. Data on the nominal buildup is presented in Reference 5. Preflight simulations, prior to the January 1966 issue of Reference 3, have not included the thrust buildup since it has very little effect on payload capability as determined by a simulation with cutoff by energy. However, the cutoff time determined in this manner is one second early, and in a reassembly, which stages by time (required to match flight-measured times), omission of the thrust buildup causes a significant error in the reassembly value of main engine specific impulse.

The deviation of the Centaur main engines from equilibrium thrust during the first approximately 90 seconds of main engine firing was not simulated in the AC-6 best preflight trajectory. The reason this phenomenon was not simulated is due to the small nominal deviation predicted for the RL10A-3-1 engines, Reference 5. However, results of the reassembly analysis indicate that there was a deviation on this flight with a significant effect on the reassembly (see Section 7.4.2).

Figure 2-1 presents a comparison of the best preflight trajectory and the flight trajectory as defined by the range-derived BET. Differences between the BET and the best preflight inertial components of position and velocity are shown for the U, V, and W axes.

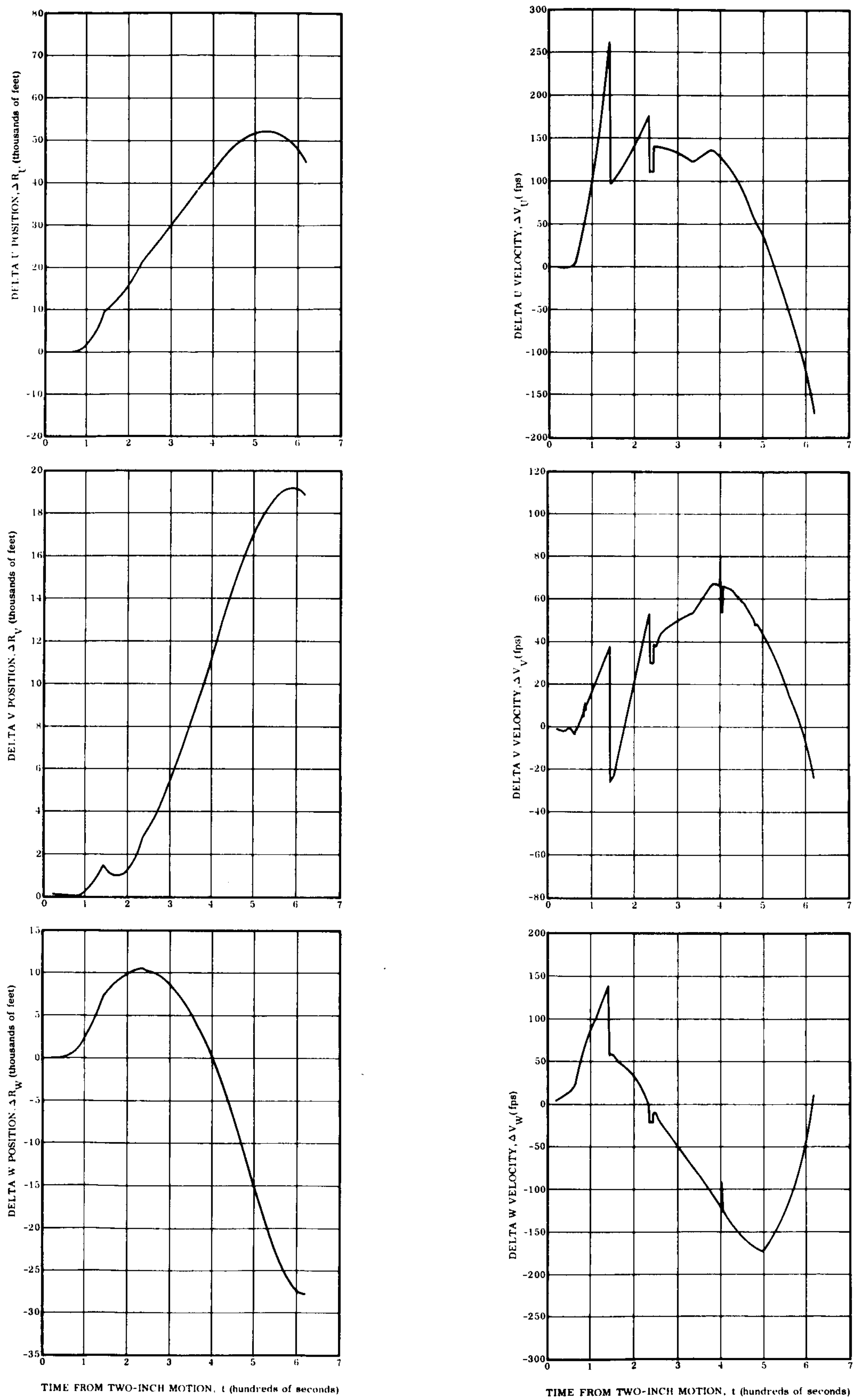

Figure 2-1. Preflight Minus BET Trajectory Data

SECTION 3

METHOD OF ANALYSIS

The starting point for the reassembly is a predicted - or reference-trajectory simulation. The predicted trajectory, including all accurately known vehicle and flight data, is termed the Modified Preflight Trajectory (see Section 5). Any such trajectory is a function of the vehicle and system parameters (control variables) such as thrust, flow rate, and pitch multiplication factor. In order to obtain a reassembly trajectory it is necessary to find modified control variables such that the resulting trajectory closely matches measured flight data.

In general, if a set of m trajectory components are to be matched to flight data at r different times along the trajectory, a total of $m \times r$ vehicle parameters must be adjusted. If the m trajectory components are to be matched in a least-squares sense at r different times along the trajectory, at least m vehicle parameters (but not exceeding $m \times r$) must be adjusted. Intuitively, deviations (bias or percentage) in vehicle system parameters for a stage are expected to be constants rather than functions of time. If the deviations are a function of time within a given stage, it is a good indication that the analytical model being used for some system in that stage is inadequate. In this case the proper solution is to correct the analytical model. It is not realistic to change the values of the same vehicle parameters in a discontinuous manner over successive time increments. Thus, the trajectory should be matched in flight phases corresponding to those during which a particular vehicle or system is operating.

Within a given stage for which a reassembly is being attempted, it is desirable to use as many data points for the match as practical. The data points should be matched in the reassembly in a manner to eliminate or reduce the effects of errors in the data points. A solution is to seek the best fit, in a least squares sense, over a given stage. The PFAN-II program developed at Convair for use with the COMBO Flight Program provides the required solution. This program forces the COMBO trajectory simulation to match measured flight data, in a least squares sense, at discrete time points throughout the flight. The mathematical basis of the PFAN-II Program is presented in Reference 4.

The AC-6 trajectory reassembly, generated by using the PFAN-II and COMBO Flight Programs, varied certain vehicle parameters to match, in a least squares sense, the position and velocity data (three components for each) at 29 time points throughout the flight and match fuel and oxidizer residuals at sustainer engine cutoff. The 29 time points consisted of 15 match points in the Atlas stage and 14 match points in the Centaur stage. The flight data for the match were the Best Estimate of Trajectory (BET) data generated by the Eastern Test Range (see Section 4).

The particular control variables, time points, and match variables used for the AC-6 reassembly are:

a. Atlas Stage

1. Control Variables

(a) Booster Thrust Multiplier

(b) Booster Fuel Flow Rate Multiplier

(c) Booster Oxidizer Flow Rate Multiplier

(d) Sustainer Thrust Multiplier

(e) Sustainer Fuel and Oxidizer Flow Rate Multiplier

(f) Booster Phase Pitch Program Multiplier

(g) Booster Phase Pitch Drift

(h) Booster Phase Yaw Drift

(i) Booster Phase Roll Program Multiplier

(j) Sustainer Phase Initial Pitch Attitude

(k) Sustainer Phase Initial Yaw Attitude

(l) Sustainer Phase Pitch Drift

(m) Sustainer Phase Yaw Drift

(n) Booster Engine Begin Decay Time

(o) Launch Mechanism Holddown Force

2. Match Variables

(a) at t = 40, 70, 100, 110, 120, 130, 138, 160, 170, 180, 190, 200, 210, 220, and 230 Seconds.

Position (R_U, R_V, R_W)

Velocity (V_U, V_V, V_W)

(b) at t = 226.7 (Fuel Port Uncovery)

W_F = 887 lb

(c) at t = 227 (LO_2 Port Uncovery)

W_O = 1823 lb

b. Centaur Stage

1. Control Variables

   (a) Pitch Drift During Main Engine Firing

   (b) Yaw Drift During Main Engine Firing

   (c) Initial Pitch Attitude at Main Engine Start

   (d) Initial Yaw Attitude at Main Engine Start

   (e) Initial Pitch Attitude at Admit Guidance Perigee Altitude Control

   (f) Centaur Main Engine Thrust

   (g) Centaur Main Engine Fuel and Oxidizer Flow Rate

2. Match Variables

   at t = 250, 280, 310, 340, 370, 430, 460, 490, 520, 550, 580, 610, 640, and 670 Seconds.

   Position (R_U, R_V, R_W)

   Velocity (V_U, V_V, V_W)

SECTION 4

FLIGHT TRAJECTORY DATA

The quality of a trajectory reassembly depends on the type and accuracy of the flight trajectory data that are matched and the technique used. The primary flight trajectory data used for the AC-6 trajectory reassembly were the inertial position and velocity data of the range-supplied Best Estimate Trajectory (BET). These data, revised to account for a re-survey of the Bermuda Glotrac, were received 123 days after the flight.

The Guidance Estimate of Trajectory (GET) position and velocity data, although used for the AC-4 trajectory reassembly, were not used in the AC-6 trajectory reassembly. The GET data are inherently smooth and, for this flight, continuous from liftoff to well past Centaur main engine cutoff. In addition, the GET was available 8 days after launch. However, comparison of these data with the original range BET showed a considerable error between GET and BET data. Inclusion of the Bermuda-site re-survey data reduced this error, but the remaining error is significant: 5000 feet position and 18 ft/sec velocity errors in the inertial W components at 620 seconds. The differences between the two sources as a function of time are shown in Table 4-1. The differences between the BET and GET data are considered to be primarily due to errors in the GET data. The close agreement of the reassembly (BET match data) injection conditions with Jet Propulsion Laboratory orbit data (from S-band radar data) seems to support this contention. (See Section 6.)

Table 4-1. Range Best Estimate Trajectory Minus Guidance Estimated Trajectory

TIME (sec)	ΔR_U (ft)	ΔR_V (ft)	ΔR_W (ft)	ΔV_U (fps)	ΔV_V (fps)	ΔV_W (fps)
40	-8	149	-17	-0.0595	-0.0355	-0.0859
60	7	177	-38	-0.2033	0.3528	-0.6521
70	2	171	-38	-0.2908	0.8282	-0.7049
80	1	171	-58	-0.6039	1.0151	-0.7740
90	0	192	-66	-0.1833	0.6326	-1.0148
100	-1	215	-81	0.4034	0.4308	-1.9651
110	13	206	-133	0.1724	0.2714	-2.3970
120	8	222	-149	0.3531	0.4013	-3.4686
130	-3	231	-162	-0.2339	0.5953	-4.2052
138	-5	241	-216	-0.4030	1.0938	-5.4075
150	-8	256	-294	-0.1728	0.5591	-6.5312
160	-15	228	-343	-0.6459	0.9572	-6.3090
170	-26	254	-396	-0.6423	1.1601	-6.6365

Table 4-1. Range Best Estimate Trajectory Minus Guidance Estimated Trajectory (Contd.)

TIME (sec)	ΔR_U (ft)	ΔR_V (ft)	ΔR_W (ft)	ΔV_U (fps)	ΔV_V (fps)	ΔV_W (fps)
180	-40	262	460	0.558	1.3183	6.8157
190	-73	284	-546	-0.808	1.3720	-6.9199
200	-42	295	-610	-1.208	0.4795	-6.3259
210	-42	300	-699	-1.309	1.3454	-7.0463
220	-61	307	-767	-1.371	1.2249	-7.4477
240	-67	330	-914	-1.352	1.2460	-8.0326
260	-128	364	-1058	-1.723	1.5050	-7.9040
280	-182	397	-1214	-1.990	1.4384	-7.9249
300	-253	415	-1382	-2.363	1.3480	-8.5699
320	-223	446	-1560	-2.486	1.5817	-8.3784
340	-295	481	-1749	-2.772	1.5455	-8.7215
360	-376	503	-1858	-3.139	1.6604	-8.9999
380	-478	538	-2056	-3.447	1.4567	-9.1518
400	-501	451	-1983	-4.524	13.7665	-38.0585
420	-572	604	-2479	-4.165	1.7954	-10.3972
440	-682	649	-2630	-4.404	1.7407	-10.4815
460	-805	676	-2861	-4.685	1.5207	-11.0069
480	-909	701	-3096	-5.457	0.5804	-12.3666
500	-996	724	-3327	-5.422	1.4604	-11.8996
520	-1081	806	-3593	-5.755	1.5185	-12.5539
540	-1171	796	-3821	-6.322	1.3580	-13.1311
560	-1369	838	-4084	-6.825	0.9958	-14.0238
580	-1472	825	-4399	-7.522	0.7670	-15.2914
600	-1681	875	-4710	-8.378	0.4585	-16.944
620	-1780	857	-5029	-8.626	-0.2016	-18.033

The range-supplied BET data were usable for the purposes of this analysis from 40 seconds after liftoff to 620 seconds after liftoff. Quality of the data in this time interval is good when the obviously erroneous points around 400 seconds of flight (Azusa-to-Bermuda handover) are eliminated. As in the AC-4 BET data, there is a bias shift in the W component of the GET-minus-BET deltas at data handover. However, the bias for this flight is less than 1/4 ft/sec. Further information concerning the quality of the data may be obtained from Reference 6.

In order to obtain reasonably accurate injection conditions for the reassembly, it was necessary to have data for the period of flight from 620 seconds of flight to Centaur main engine cutoff. This was accomplished by extrapolating the BET-GET deltas to cover the required time interval and applying these deltas to the relatively smooth and continuous GET data.

Additional flight trajectory data matched in the reassembly are Atlas fuel and LO_2 weights above the pump inlets at fuel and LO_2 port uncovery times. The method of calculating these Atlas propellant weights is presented in Reference 7.

SECTION 5

MODIFIED PREFLIGHT TRAJECTORY

The modified preflight trajectory is the basic reference trajectory simulation from which the reassembly is initiated. It is a modification of the preflight trajectory (Section 2) to include flight measured data. The data may be based on analyses conducted prior to and/or subsequent to the flight. The following data, based on flight measurements, were used in the modified preflight trajectory.

a. Atmospheric Data (Rawinsonde balloon released 9 minutes after liftoff)

   1. Wind speed and direction as a function of altitude
   2. Density as a function of altitude
   3. Ambient pressure as a function of altitude
   4. Temperature as a function of altitude

b. Propulsion Data

   1. Atlas PU valve position (telemetry)
   2. Atlas liquid oxygen and fuel tank ullage pressures (telemetry)
   3. Atlas liquid oxygen and fuel density (calculated from telemetered measurements)
   4. Centaur main engine thrust buildup (calculated from telemetered chamber-pressure measurements with modifications based on accelerometer data)

c. Weight Data

   1. Hardware (weighings and calculations)
   2. Propellants (calculated from density and volume measurements)

d. Sequence of Events Data from Reference 7 (primarily based on CM101A accelerometer readings)

e. Aerodynamic Data (See Section 7.6)

   1. Booster phase drag
   2. Booster phase base thrust

f. Atlas-sustainer and Centaur pitch rate history data (calculated from guidance computer telemetered thrust-velocity data)

SECTION 6

COMPARISON OF REASSEMBLY TRAJECTORY WITH FLIGHT DATA

Delta position and velocity components between the AC-6 trajectory reassembly and range BET computed every second from liftoff are shown in Figure 6-1. The magnitude and distribution of these position and velocity deltas indicate how well the computed trajectory duplicates the actual flight. The reassembly is considered satisfactory if the deltas are small and apparently random. A systematic pattern of these deltas, assuming error-free tracking data, would indicate a deficiency in one or more of the mathematical models used in the simulation or some unaccounted-for deviation in vehicle performance. The maximum position error, excluding the extreme deltas caused by noisy BET data at handover and after 620 seconds of flight, is 265 feet in the U-axis direction. The maximum velocity delta is 7 ft/sec in the W-axis direction, when the deltas in the U component at 143 seconds and in the W component at 142 seconds, as well as those extreme deltas caused by noisy BET data, are excluded. The BET points at 142 and 143 seconds are in error because a linear interpolation technique was used to adjust the BET data to even one-second time increments relative to two-inch motion.

During the Atlas phase, the maximum position residual is less than that for the AC-4 reassembly. This is attributed to the addition of yaw drift as a control variable during the booster engine phase of the AC-6 reassembly. The maximum velocity residual during the Atlas phase is slightly larger (1 ft/sec) than for the AC-4 reassembly. The magnitude of these errors is acceptable; however, a definite trend exists in both the AC-4 and AC-6 deltas at booster staging. This error is largely due to an error in the preflight thrust-decay model, which was also used in the reassembly simulation. Analysis of AC-2 through AC-6 begin-booster-engine-thrust-decay times determined from CM101A accelerometer data (References 7 through 10) yields a mean delay in start-decay-time-from-BECO discrete of 0.145 seconds with a standard deviation of 0.01 seconds. Because of this, booster engine stage time was used as a reassembly control variable. This technique was also used in the analysis of Reference 11. As may be seen from the AC-6 velocity deltas, use of stage time as a control variable did not satisfactorily eliminate the error. Actual booster thrust decay and that obtained using stage time as a control variable are compared in Section 7.4.1

The AC-6 deltas during the Centaur phase of flight are much larger than those for the AC-4 reassembly. The systematic pattern and the increase in the magnitude of the deltas during the Centaur stage is primarily due to complications in the propulsion simulation caused by incorporation of the propellant utilization system in AC-6. Centaur-stage propulsion simulation is discussed in detail in Section 7.4.2.

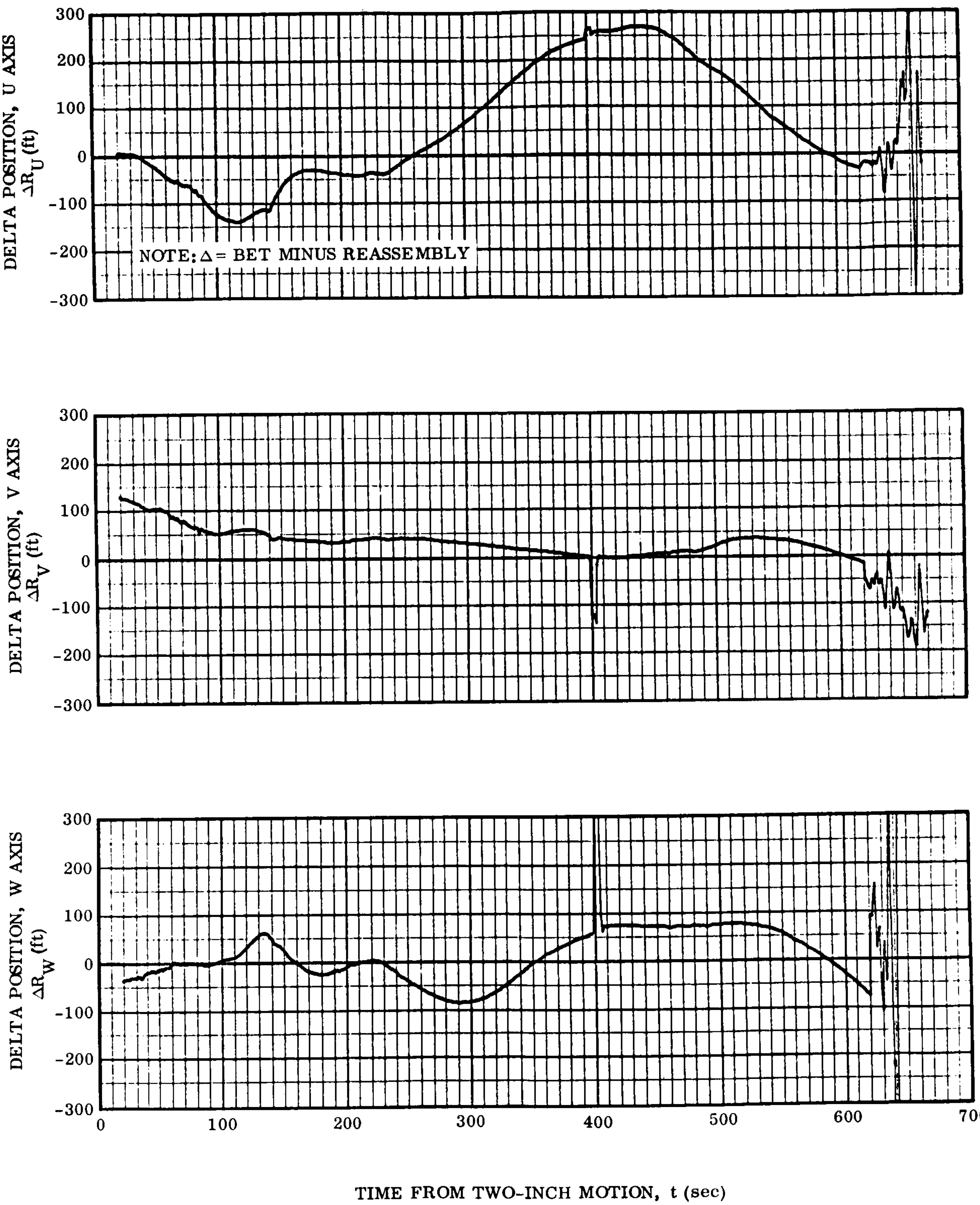

Figure 6-1. Delta Position and Velocity Along the U, V, and W Axes (sheet 1 of 2)

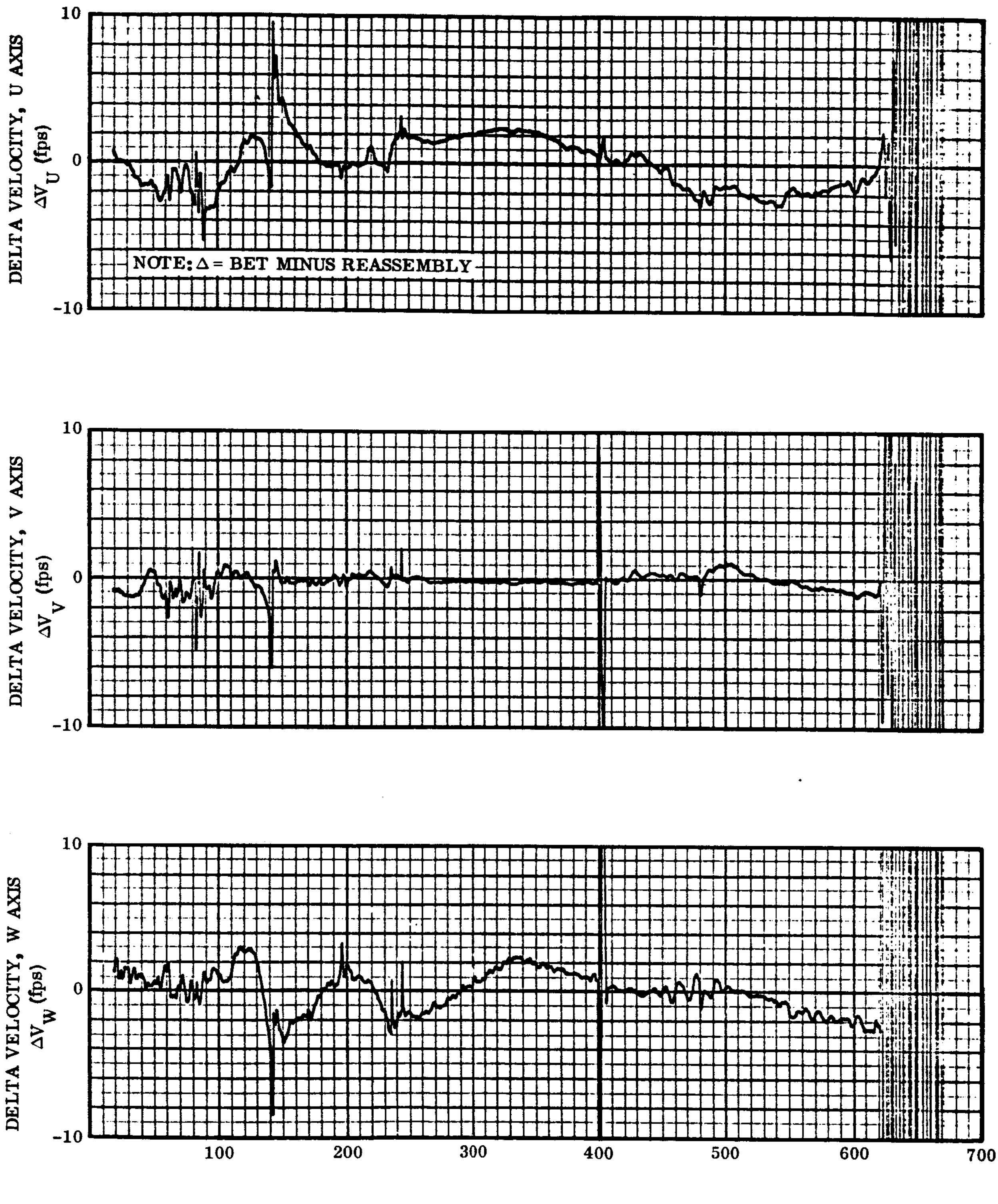

Figure 6-1. Delta Position and Velocity Along the U, V, and W Axes (sheet 2 of 2)

Spacecraft orbital data from the reassembly are compared in Table 6-1 to that determined by the Jet Propulsion Laboratory from S-band radar data (Reference 12). A 3/4 ft/sec velocity increment (provided by the separation springs) is inherent in the JPL orbit data since the acquisition spans of the data used for the orbit determination occur after separation. The epoch for the orbit data (JPL and reassembly), however, is prior to actual separation. Since the separation velocity increment is not simulated in the reassembly until time of separation, this increment is not in the reassembly orbit data. When this increment is added to the orbital velocity for the reassembly the comparison is good.

Table 6-1. AC-6 Spacecraft Orbital Parameters

PARAMETER	PREFLIGHT	FLIGHT	REASSEMBLY
Radius (ft)	21,535,809	21,527,589	21,526,912
Latitude (deg)	23.1052	22.983811	22.9879
Longitude (deg)	307.0162	307.44802	307.4468
Earth Relative Velocity (fps)	34,642.653	34,645.656	34,643.325
Pitch Angle (deg)	-3.15375	-2.9693615	-2.98837
Azimuth (deg)	108.041	108.15662	108.143
Semimajor Axis (ft)	1,400,061,300	1,363,201,800	1,334,602,400
Eccentricity	0.98466136	0.98424758	0.98391106
Inclination (deg)	28.593421	28.562167	28.557672
C_3 (ft^2/sec^2)	-10,054,192	-10,326,042	-10,547,312
Longitude of Ascending Node (deg)	358.92263	359.08078	359.10143
Argument of Perigee (deg)	131.03417	131.00263	131.01514
True Anomaly (deg)	-6.11391	-5.7576991	-5.79552

Note: Data epoch is end of Centaur main engine decay.

SECTION 7

REASSEMBLY RESULTS

The following subsections present the major results of the vehicle AC-6 trajectory reassembly. These results are compared to the preflight trajectory simulation, Section 2, and where possible, to flight-measured values.

7.1 PAYLOAD CAPABILITY. Mission objectives are satisfied by a launch vehicle when a specified payload weight is injected into a required orbit. Payload capability is a measure of a launch vehicle's weight-delivery capability in performing a desired mission. The predicted payload capability of a given launch vehicle is necessarily a function of the required orbit and the amount of propellants held in reserve to statistically ensure achievement of the required orbit. In equation form, predicted payload capability weight (W_{PC}) is

$$W_{PC} = W_{BO} - W_{FPR} - W_{JETT} \quad (1)$$

where

W_{BO} is the nominal burnout weight injected into the required orbit by Atlas/Centaur, assuming that all systems function according to the predicted mean on a normal distribution curve.

W_{FPR} is the amount of Centaur stage propellants held in reserve to ensure a 3-sigma (99.87 percent) probability of achieving the required injection energy.

W_{JETT} is the separated Centaur-stage weight at the time of Centaur-stage burnout.

For most efficient use of the launch vehicle, the separated spacecraft weight should equal the predicted payload capability. However, Surveyor mission payload capability for a direct-ascent vehicle, such as AC-6, is a function of launch time. Thus, at most launch times during a launch window a performance margin will exist. This margin consists of Centaur propellants in excess of the performance reserve. A margin will occur whenever the predicted payload capability is greater than the actual spacecraft weight.

The preflight-predicted capability for AC-6, from Equation 1, was 2100 pounds based on

a. W_{BO} = 6424 pounds (see Appendix A).

b. W_{FPR} = 180 pounds (includes a 20-pound margin to account for the probable error in FPR due to the use of idealized guidance simulation for FPR determination).

c. W_{JETT} = 4144 pounds (including a propellant-utilization bias of 60 pounds of LH_2, Reference 3).

The AC-6 spacecraft weight was 2084 pounds resulting in a net margin of 16 pounds. The payload capability, assuming that all systems functioned according to the predicted mean on a normal distribution curve (50% probability), was 2280 pounds (2100 + 180). This statistical treatment of payload capability is illustrated in Figure 7-1.

Postflight payload capability is the weight of functional payload that the vehicle (operating as it did on the flight) could have injected into the required orbit. Each pound of propellant residual at burnout in excess of trapped, gaseous, and propellant-utilization-system LH_2 bias is equivalent to a pound of payload, since the vehicle could have been tanked light by an amount equal to the excess propellant residual and the payload increased the same amount (the same liftoff weight is maintained). With the above definitions, postflight payload capability can be expressed as in Equation 2.

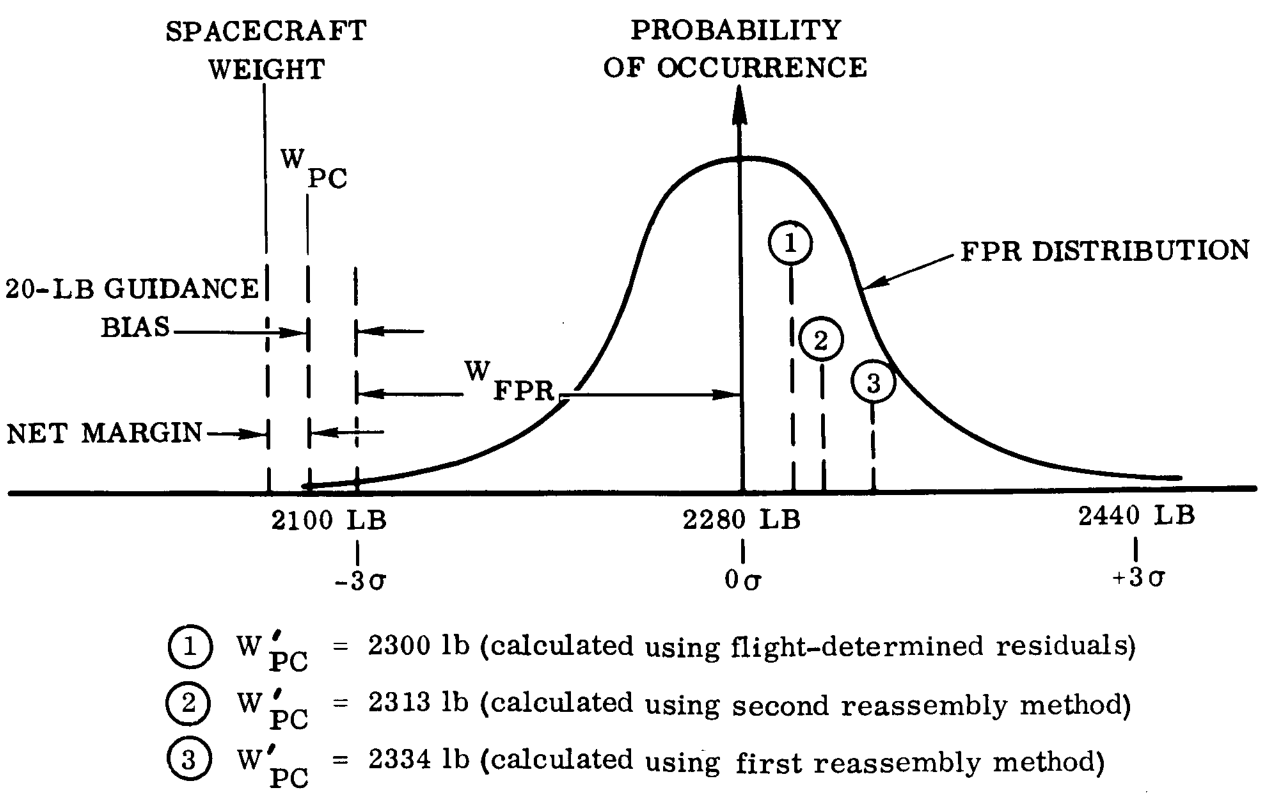

Figure 7-1. Statistical Treatment of Payload Capability

$$W'_{PC} = W'_{BO} - W'_{JETT} \tag{2}$$

or equivalently

$$W'_{PC} = W_{PAY} + W_{ER} \tag{3}$$

where

W'_{PC} is postflight payload capability weight.

W'_{BO} is total weight injected into the flight orbit ($W'_{BO} = W_{PAY} + W_{ER} + W'_{JETT}$).

W'_{JETT} is the separated Centaur stage wieght at Centaur burnout excluding the excess propellant residual.

W_{ER} is the propellant residual in excess of trapped, gaseous, and propellant-utilization-system LH_2 bias.

W_{PAY} is the actual injected payload weight (2084 pounds for AC-6).

One method of computing the postflight payload capability using Equation 3 is based on flight determined propellant residuals. This is the most direct method for determining postflight payload capability and, hence, is probably the most accurate. W_{ER} based on the measured residuals (Section 7.5.2) is 216 pounds, so that W'_{PC} is 2300 pounds. This is 20 pounds greater than the predicted mean payload capability of 2280 pounds.

Payload capability based on the reassembly can be calculated by two separate methods. The first reassembly method uses Equation 2 with W'_{BO} determined from the reassembly. Payload capability for AC-6 using this method is 2334 pounds (W'_{BO} = 6480 pounds and W'_{JETT} = 4146 pounds). This is an increase of 34 pounds over W'_{PC} as computed using flight-determined residuals, which is within the ± 50 pounds quoted accuracy of the flight-determined residuals.

The second reassembly method of calculating payload capability was used in previous reassembly reports. This method consists of applying the Surveyor mission performance partials to vehicle configuration and system dispersions determined from the reassembly. Table 7-1 lists the vehicle system deviations between the preflight and reassembly trajectories for AC-6 along with the performance partials and payload deltas. The estimated Surveyor mission performance delta from Table 7-1 is + 33 pounds. The value of payload using this reassembly method is 2313 pounds (2280 + 33).

Table 7-1. Estimated Surveyor Mission Performance Delta

PARAMETER (X)	AC-6 PREDICTED 3σ DISPERSIONS (Reference 13)	FLIGHT DEVIATIONS (1)	PERFORMANCE PARTIAL ($\Delta W_{PAY}/\Delta W$)	DELTA PAYLOAD (ΔW_{PAY})
Booster Staging Acceleration	+0.077 g	+0.05 g	(4)	+1
Booster Thrust	±3000 lb	+1106 lb	1/161 lb/lb	+7
Booster I_{sp}	±2.4 sec	-2.47 sec	23.6 lb/sec	-58
Sustainer Thrust	±855 lb	1449 lb	1/85 lb/lb	+17
Sustainer I_{sp}	±2.8 sec	4.1 sec	15 lb/sec	+62
Sustainer Residuals (Soft Decay Error)		+322 lb		-36
Centaur Thrust(2)	±424 lb	-499(3) lb	1/62.6 lb/lb	-8
Centaur I_{sp}(2)	±3.54 sec	-1.3(3) sec	28 lb/sec	-36
Atlas Drag & Holddown				+82
Reduced AC-6 Holddown				+2
Payload Delta				+33

(1) $\Delta X = X_{reassembly} - X_{preflight}$

(2) Two engines

(3) Reassembly mean value for nulled PU valve angle minus preflight reference value

(4) Variable with stage time (Reference 2)

The Delta payload capabilities for AC-2, AC-3, AC-4, and AC-6 using the reassembly performance data are compared in Table 7-2. The postflight payload capabilities determined using the three methods presented are included, for comparison, in Figure 7-1.

Table 7-2. Atlas/Centaur Surveyor Mission Delta Payload from Reassembly Performance

PERFORMANCE	AC-2	AC-3	AC-4	AC-6
Total Delta	+230	+211	+92	+33
Atlas Delta	+155	+198	+95	+77
Centaur Delta	+ 75	+ 13	- 3	-44

7.2 SEQUENCE OF EVENTS. The Atlas booster engine phase was terminated by guidance, based on attainment of a preselected thrust acceleration value measured by the guidance accelerometers. All subsequent discrete events until sustainer engine cutoff were initiated by the Atlas flight-control programmer as a function of elapsed time from booster engine cutoff (BECO). Atlas sustainer stage was terminated by a planned propellant depletion mode. All Centaur phases and discrete events, except main engine cutoff, were initiated and/or terminated by the Centaur flight-control programmer as functions of elapsed time from sustainer engine cutoff. Centaur main engine cutoff (MECO) is commanded by the guidance system when the required velocity-to-be-gained has been achieved.

The major trajectory flight-event times are compared in Table 7-3. Actual times were determined primarily from CM101A accelerometer data.

7.3 COMPARISON OF PREFLIGHT AND REASSEMBLY TRAJECTORIES. The preflight and reassembly trajectories are compared at the discrete points corresponding to start booster engine decay, start sustainer engine decay and Centaur main engine cutoff in Table 7-4. At start booster engine decay (determined by reassembly program iteration on booster stage time) the trajectory from reassembly was high, and fast, even though staging occurred approximately 1.5 seconds early.

A pattern of a high and fast Atlas booster phase trajectory and early booster engine cutoff has been established for Atlas/Centaur flights AC-2, -3, -4, and -6. A major cause of this discrepancy is an inaccurate preflight-simulation drag model. The discrepancy is reduced when the revised drag simulation, discussed in Section 7.6, is simulated in the preflight trajectory. Data for the AC-6 preflight simulation with the revised drag model are included in Table 7-4 for comparison. Also contributing to AC-6 early booster staging is higher-than-nominal booster and sustainer thrust and a significantly lower-than-nominal booster specific impulse.

Table 7-3. Flight Event Times

EVENT	ACTUAL TIME FROM LIFTOFF (sec)	ELAPSED TIME (sec)	
		PREFLIGHT	ACTUAL
Guidance to Flight Mode	-7.795	-8.0	T1-7.755
Liftoff (Vehicle 2-In. Motion): T1	0[1]	0.0	[1]
Start 20.461Deg Roll to Launch Azimuth = 94.539 Deg[2]	2.06	T1+2	T1+2.06
End Roll [2]	14.98	T1+15	T1+14.98
Start Pitch Program [2]	14.91	T1+15	T1+14.91
Booster Staging Discrete: T2	141.80	T1+143.31	T1+141.80
Start of Booster Engine Thrust Decay [3]	141.84	T2+0.00	T2+0.04
Booster Engine Package Jettison [2]	144.88	T2+3.1	T2+3.08
Admit Guidance Steering [2]	149.81	T2+7.95	T2+8.01
Jettison Centaur Insulation Panels Shock	171.65	T2+30	T2+29.85
Jettison Centaur Nose Fairing Shock	196.50	T2+55	T2+54.70
Sustainer Engine Cutoff (SECO): T3	234.28	T2+92.42	T2+92.48
Start Sustainer Engine Thrust Decay [4] (Soft Shutdown)	233.0	T3-2.87	T3-1.28
Atlas/Centaur Separation (Fire Atlas Retrorockets) [2]	236.29	T3+2.0	T3+2.01
Start Centaur Main Engines Command: T4[2]	242.77	T3+8.5	T3+8.49
Admit Guidance Steering [2]	246.80	T3+12.5	T3+12.52
Main Engine Cutoff Discrete: T5	679.08	T4+431.37	T4+436.31

(1) 1431:04.430Z
(2) Programmed event
(3) Reassembly value determined by iteration on stage time
(4) As simulated in reassembly (accurate determination of start of the decay is difficult due to the very gradual decrease in thrust during onset of decay)

Table 7-4. Preflight and Reassembly Trajectory Parameters

EVENT AND PARAMETER	PREFLIGHT	REVISED DRAG-MODEL PREFLIGHT	RE-ASSEMBLY
Liftoff			
Total Atlas/Centaur Weight (lb)	303,510	303,510	303,510
Liquid Oxygen Weight(1)(lb)	172,286	172,286	172,286
Fuel Weight(1)(lb)	76,103	76,103	76,103
Start Booster Engine Decay			
Time (sec)	143.309	142.8310	141.836
Altitude (ft)	191,077	192,872	193,337
Range (n.mi.)	42.58	42.67	42.31
Inertial Velocity (ft/sec)	9,344.72	9,384.59	9,394.59
Inertial Flight Path Angle (deg)	21.479	21.719	21.887
Longitudinal Load Factor (g)	5.700	5.700	5.751
Start Sustainer Engine Decay			
Time (sec)	232.857	234.9	233.0
Altitude (ft)	465,531	477,094	477,792
Range (n.mi.)	172.43	177.17	175.89
Inertial Velocity (ft/sec)	12,569.67	12,695.10	12,757.50
Inertial Flight Path Angle (deg)	13.015	12.844	12.943
Longitudinal Load Factor (g)	1.801	1.800	1.829
Liquid Oxygen Weight Above Pump(1)(lb)	704	706	677
Fuel Weight Above Pump(1)(lb)	382	384	411
Centaur Main Engine Cutoff			
Time (sec)	675.596	676.46	679.08
Altitude (ft)	621,210	621,089	612,084
Range (n.mi)	1,519.21	1,528.21	1,544.35
Inertial Velocity (ft/sec)	36,003.700	36,002.835	36,000.960
Inertial Flight Path Angle (deg)	-3.037	-2.962	-2.875
Longitudinal Load Factor (g)	4.6750	4.6163	4.6319
Vis-Viva Energy (ft^2/sec^2)	-10,984,432	-11,051,584	-11,729,471
Weight (lb)	6,424	6,506	6,480

(1) Propellants are above sustainer pump inlet and contributing to net positive suction head (NPSH)

Start sustainer engine decay was approximately 0.14 second late compared to the preflight trajectory. However, sustainer engine cutoff (SECO) discrete was 1.45 seconds early. The early cutoff was due to a more rapid "soft-decay" phase on the flight compared to that predicted. Sustainer engine soft decay is discussed further in Section 7.4.1. At SECO the vehicle trajectory was still high and fast.

Centaur Main Engine Cutoff (MECO) occurred approximately 3.28 seconds late. Main engine burn time, however, was 4.94 seconds longer than predicted. Based on the reassembly results the longer Centaur main engine burn time was due to lower-than-predicted main engine thrust. The total cutoff time dispersion was reduced due to lower-than-predicted main engine I_{sp} and the effect of thrust and flow rate transients caused by propellant utillization valve angle variations, which were not simulated in the preflight trajectory. Even with a longer burn time, MECO occurred at a lower-than-predicted altitude (9,000 feet) and slower-than-predicted velocity (3 ft/sec). Both lower-than-predicted main engine thrust and I_{sp} contributed to these dispersions.

Figures 7-2 through 7-7 present plots of the primary trajectory parameters for flight from liftoff to MECO. Slight lofting during the Atlas and early Centaur phases (as in previous flights) is evident in Figure 7-2. The reassembly results showed that the lofting was caused primarily by higher-than-nominal Atlas booster and sustainer engine thrust and less-than-predicted drag. The vehicle inertial velocity as a function of time is presented in Figure 7-3. The velocity gain in the Atlas stage and loss in the Centaur stage is evident.

Flight data are included for Mach number and dynamic pressure in Figure 7-6. The correlation with the reassembly results is good and the time shift in the dynamic pressure curves noted for the AC-2 and AC-3 reassemblies is not evident. This improvement in the match (as in the AC-4 reassembly) is due to the revised drag simulation used in the reassembly (Section 7.6)

The flight-measured, angle-of-attack data, determined from differential pressure taps located on the Centaur nose fairing hemispherical cap, are shown in Figure 7-7 along with the preflight and reassembly data. Correlation of the reassembly with flight data is generally good. Some of the difference occurs because the reassembly is a steady-state simulation and does not include the effects of gusts.

7.4 PROPULSION

7.4.1 Atlas Stage Propulsion. In the reassembly of the Atlas stage, propellant utilization (PU) valve angle, liquid oxygen tank ullage pressure, fuel tank ullage pressure, and liquid oxygen temperature at the sustainer pump inlet were forced to follow the time histories measured during the flight. The PU valve angle, controlling the fuel-flow rate to the sustainer engine, is compared for the preflight and reassembly simulation in Figure 7-8. Liquid oxygen tank ullage pressure for the preflight and reassembly simulations is shown in Figure 7-9, and fuel tank ullage pressure for the preflight and reassembly simulations is shown in Figure 7-10. Liquid oxygen temperature at the sustainer pump inlet measured on the flight and used in the reassembly is shown in Figure 7-11. The resulting liquid oxygen density computed in the simulation is compared to the preflight in Figure 7-12.

The effective specific impulse (I_{sp}), of the reassembly, during the constant PU-valve-angle phase prior to sustainer engine cutoff is 309.07 seconds. This is an increase of 2.4 percent from the preflight value of 301.87 seconds. A value of 314.79 seconds with a standard deviation of 1.3 seconds was obtained independently of the reassembly using BET position and acceleration data during the constant PU-valve-angle phase from 198 to 212 seconds. A similar value of I_{sp} with a standard deviation approximately double that above was obtained using telemetered guidance-computer, thrust-velocity data.

The generally good agreement and low standard deviation for I_{sp} obtained using the BET and guidance data would normally be accepted as sufficient proof of the correctness of the I_{sp} obtained. However, the method used (References 14 and 15) is based on the assumptions that thrust and flow rate are constant over the period of time being considered. Generally, it has been assumed that the small deviations in sustainer engine thrust and flow rate during the constant PU-valve-angle phase just prior to sustainer engine cutoff would not significantly affect the value of I_{sp} calculated using this method. Check calculations, based on a COMBO simulation of the sustainer phase during a constant PU-valve-angle phase similar to that on this flight, showed that a decrease in thrust of only 70 pounds would result in an overestimation of the I_{sp}, using this method, of approximately 4 seconds. If the flight thrust history were known the I_{sp} values could be corrected. However, unless an accurate measure of sustainer thrust history at altitude can be found, the I_{sp} values calculated from BET and guidance data are of little value. It is recommended that in future Atlas reassemblies no attempt should be made to calculate sustainer stage I_{sp} using the method of References 14 and 15.

The preflight and reassembly Atlas propulsion parameters are compared in Table 7-5 together with engine log values. The booster engines for this flight are uprated versions of those used for the AC-2, AC-3, and AC-4 flights. Sea level rated thrust and I_{sp} for these engines are 330,000 pounds and 252.5 seconds, respectively. Nearly all the propulsion parameters determined from the reassembly are outside the predicted 3-sigma tolerances. These parameters were all within the 3-sigmal tolerances for the AC-4 reassembly. It is doubted that the propulsion deviations are actually as large as indicated by the reassembly. However, there definitely were larger trajectory errors for the AC-6 flight than for the AC-4 flight. Part of the reason for large propulsion deviations from the reassembly is due to an inadequate determination of launcher mechanism holddown force, booster engine thrust decay, and aerodynamic forces for this flight. Booster engine decay is discussed in the following paragraphs; the other two sources of error are discussed in subsequent sections.

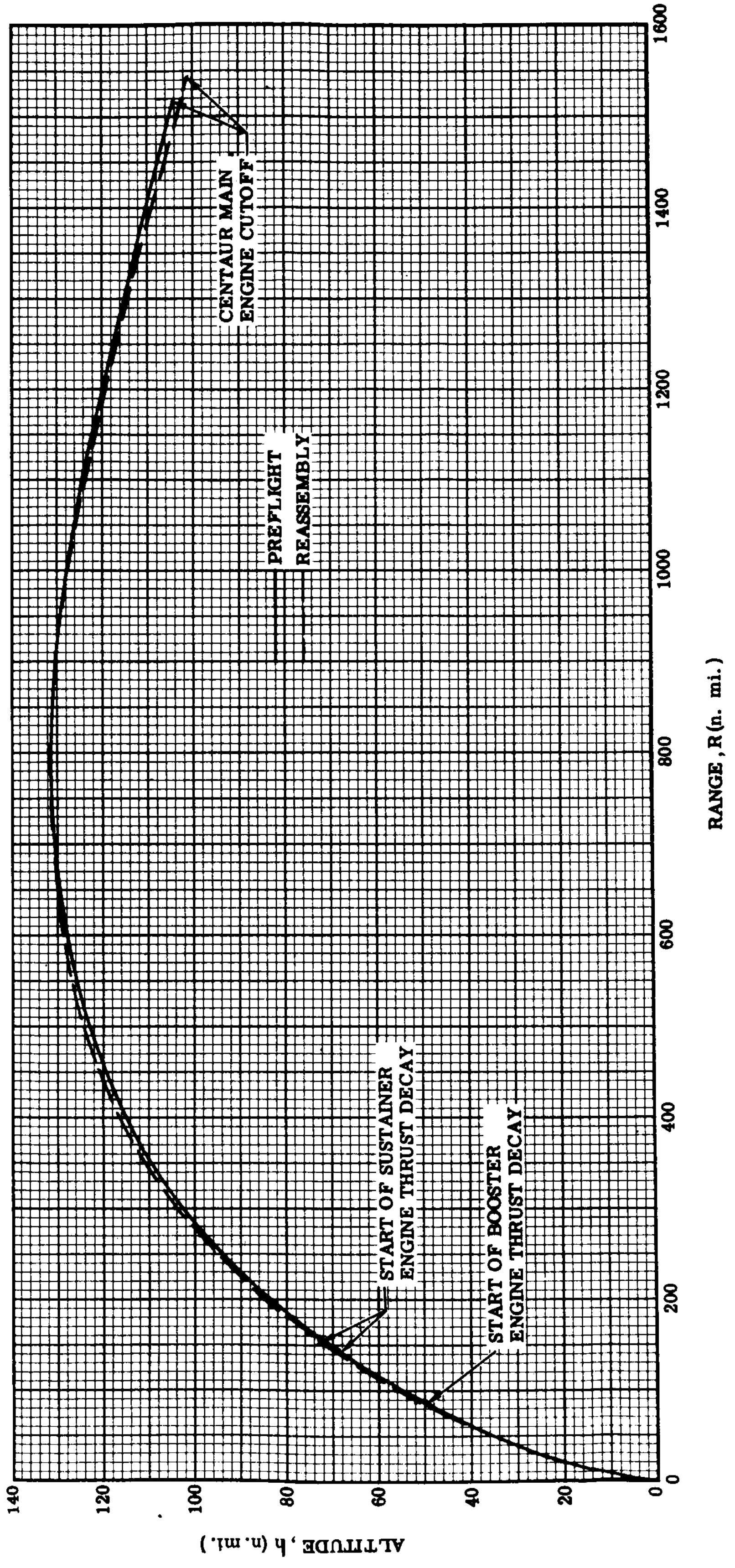

Figure 7-2. Vehicle Altitude versus Range

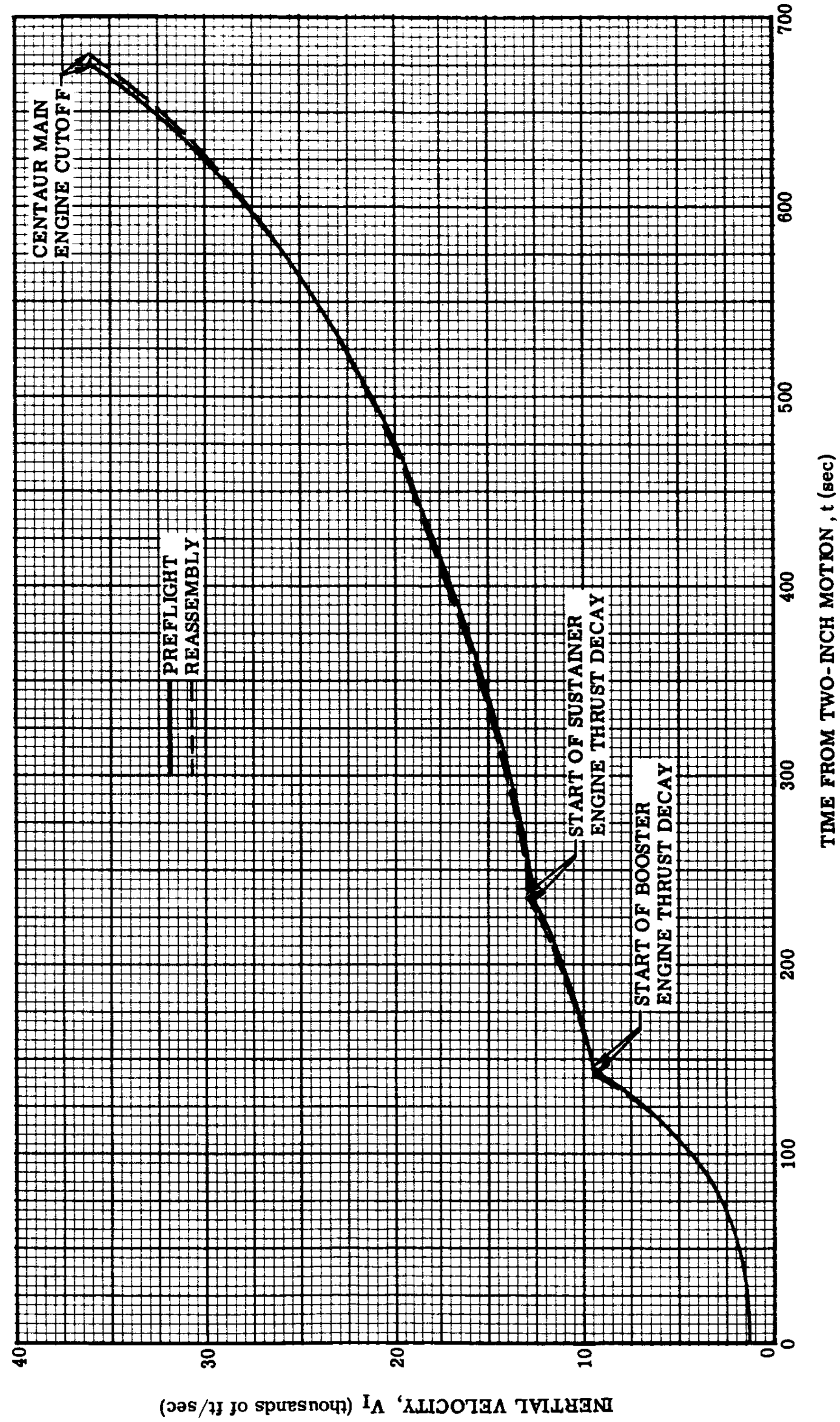

Figure 7-3. Inertial Velocity as a Function of Time

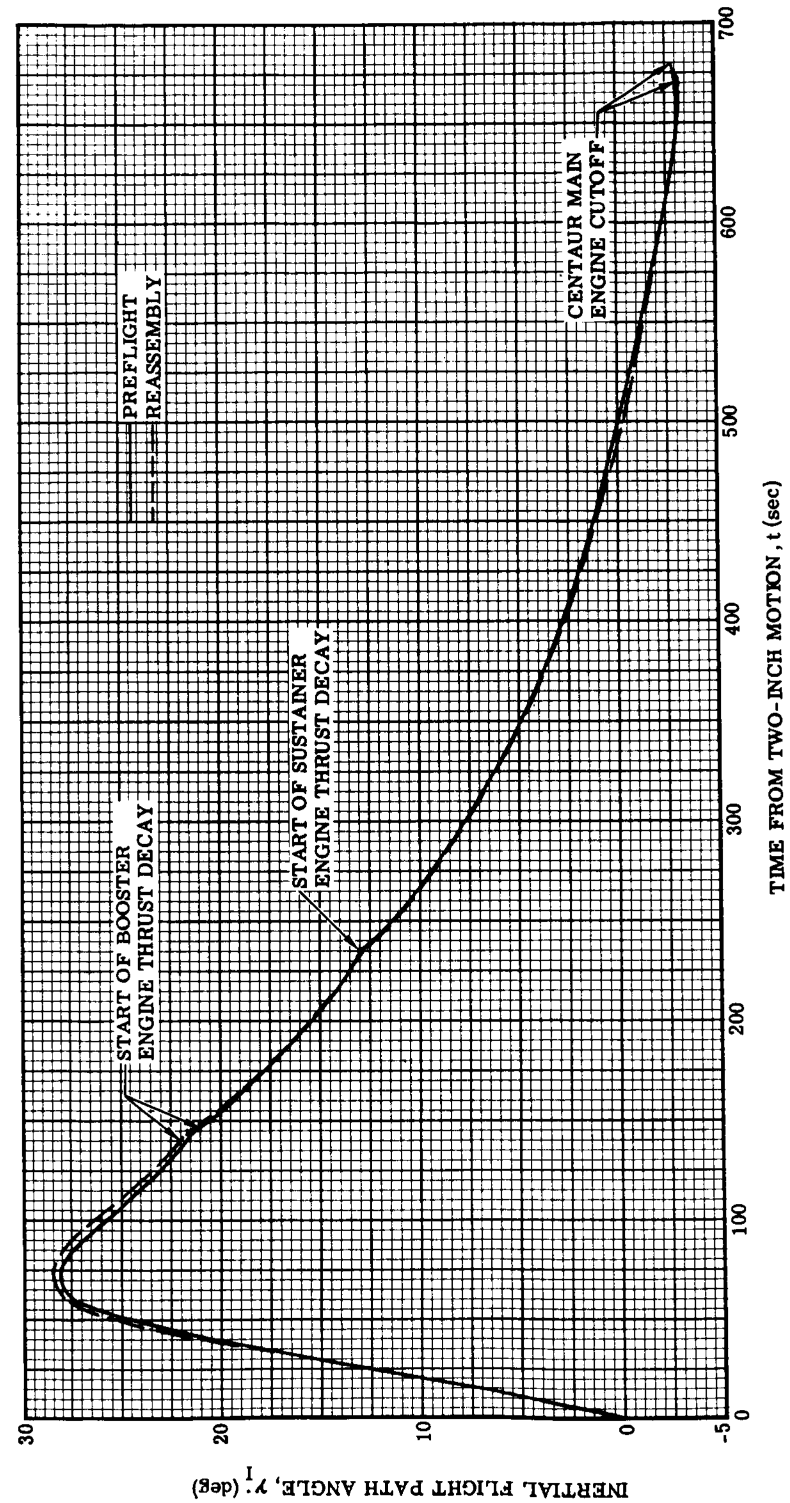

Figure 7-4. Inertial Flight Path Angle as a Function of Time

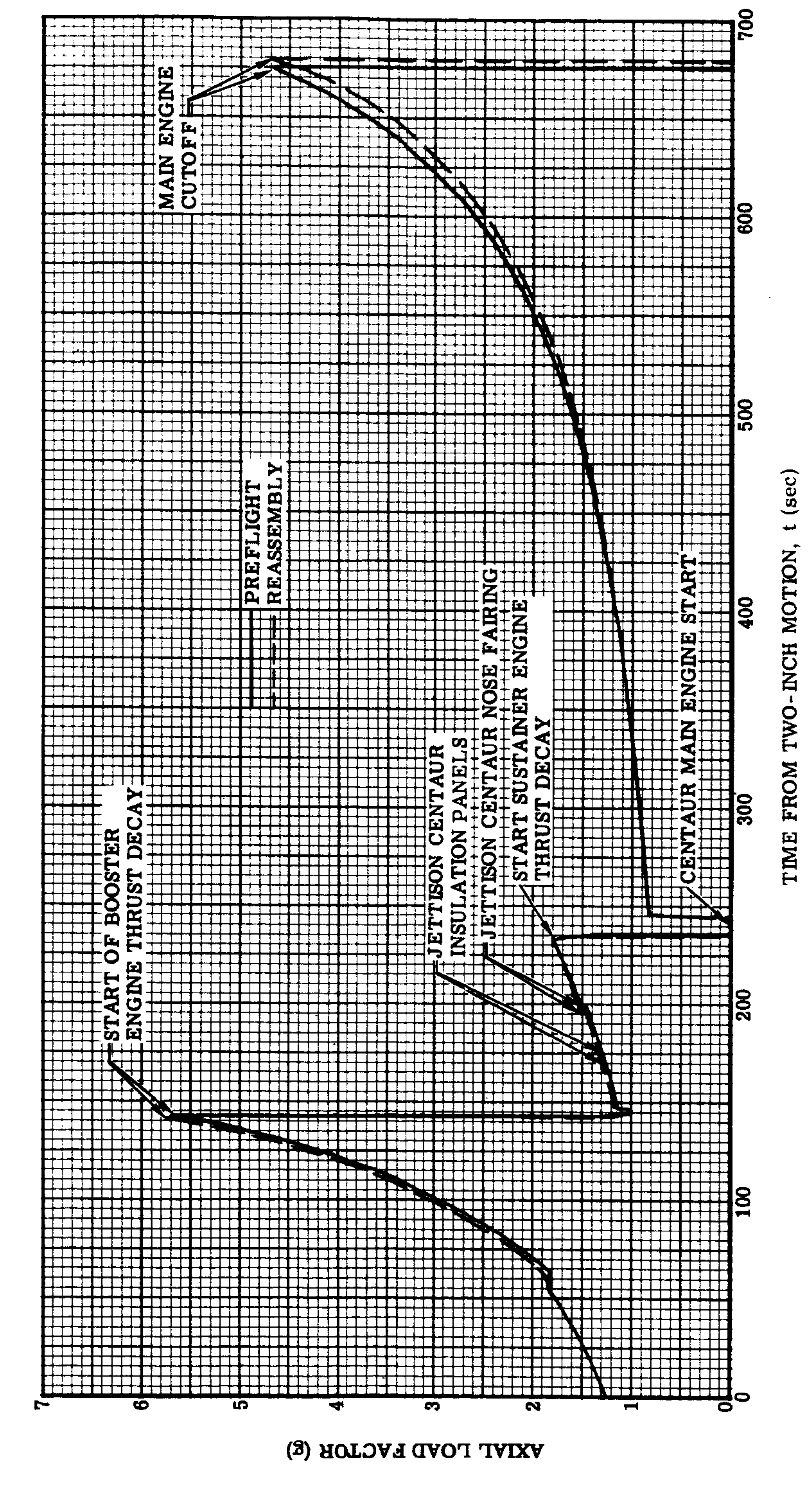

Figure 7-5. Axial Load Factor as a Function of Time

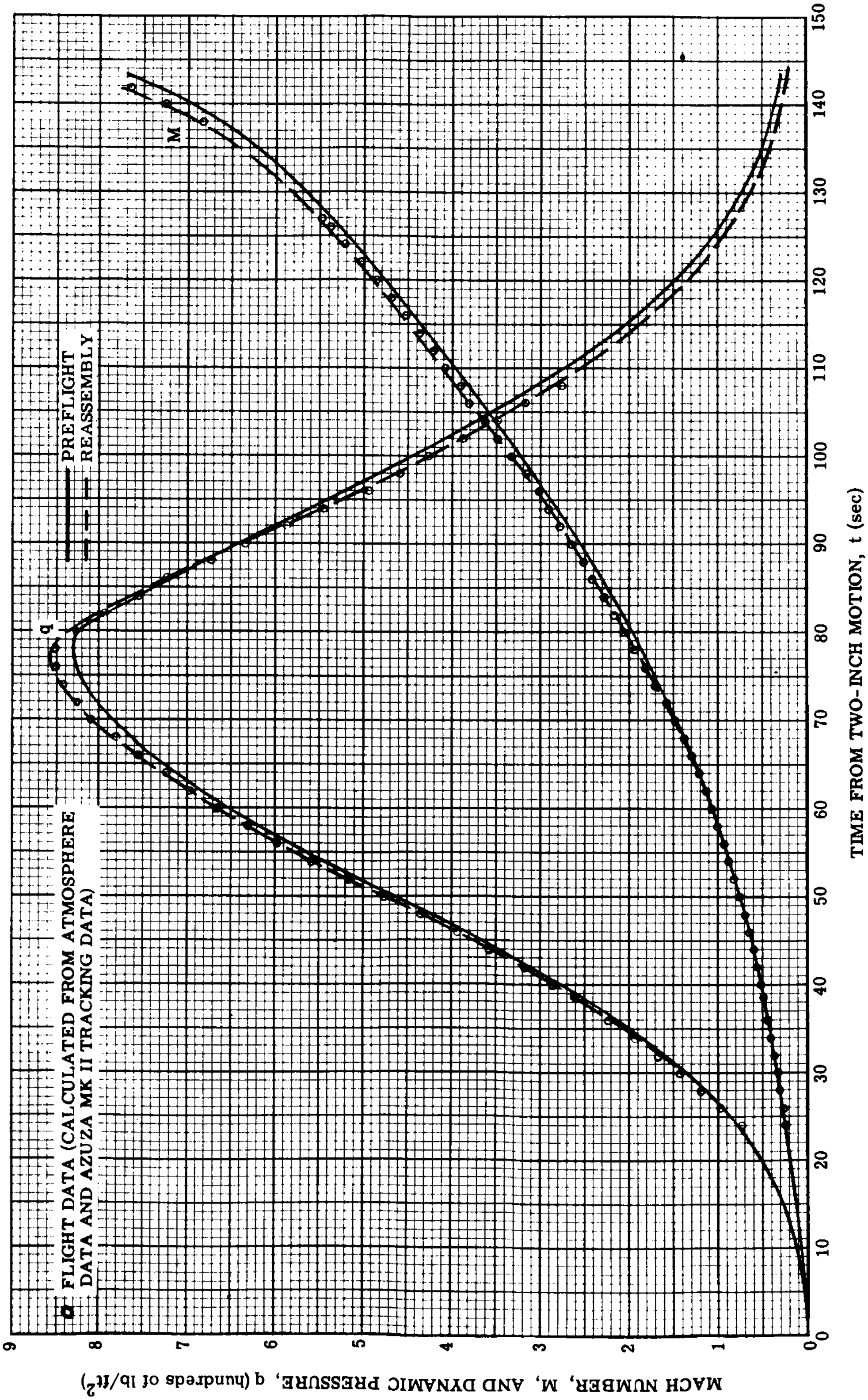

Figure 7-6. Mach Number and Dynamic Pressure as a Function of Time

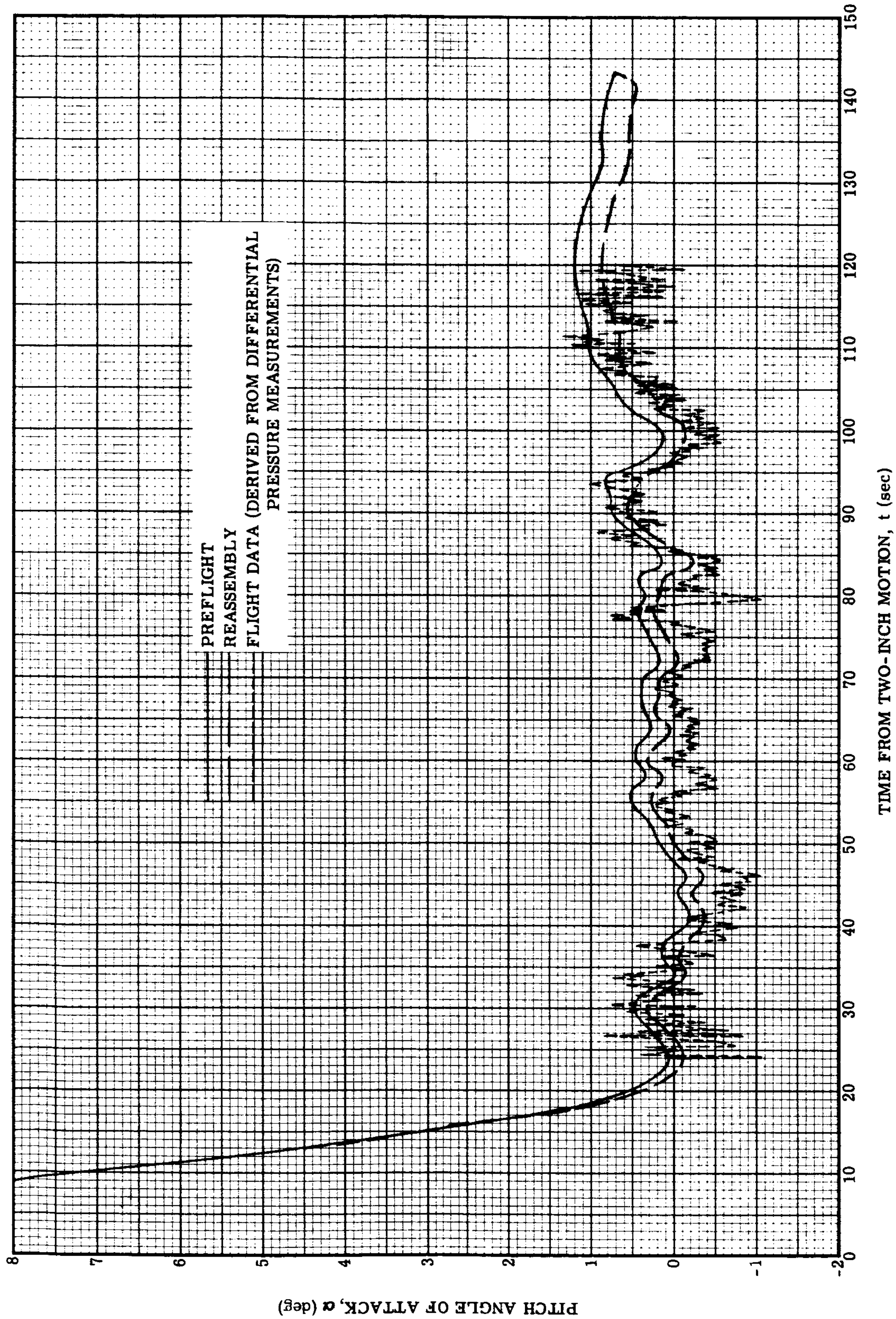

Figure 7-7. Pitch Angle of Attack as a Function of Time

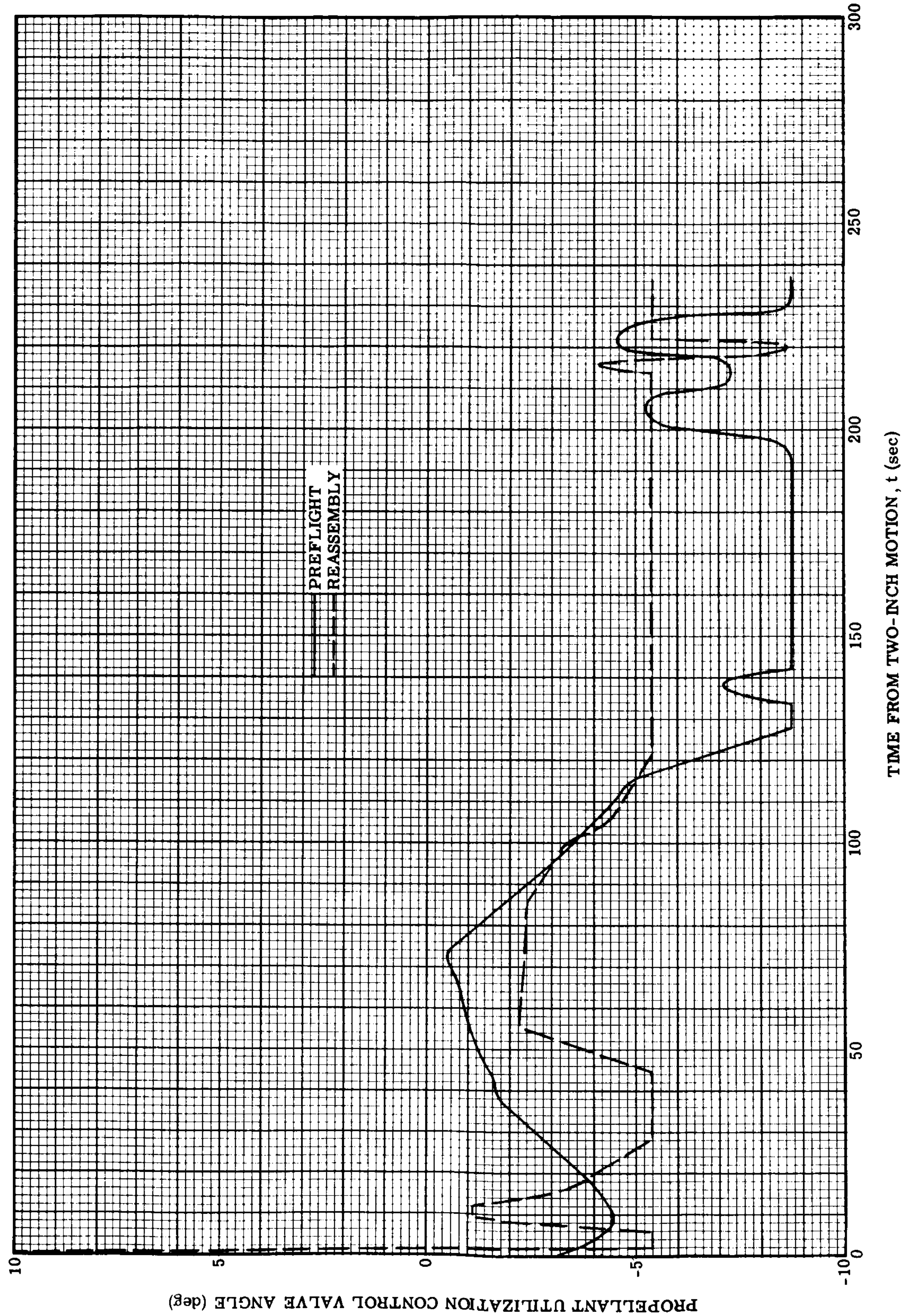

Figure 7-8. Atlas Propellant Utilization Valve Angle as a Function of Time

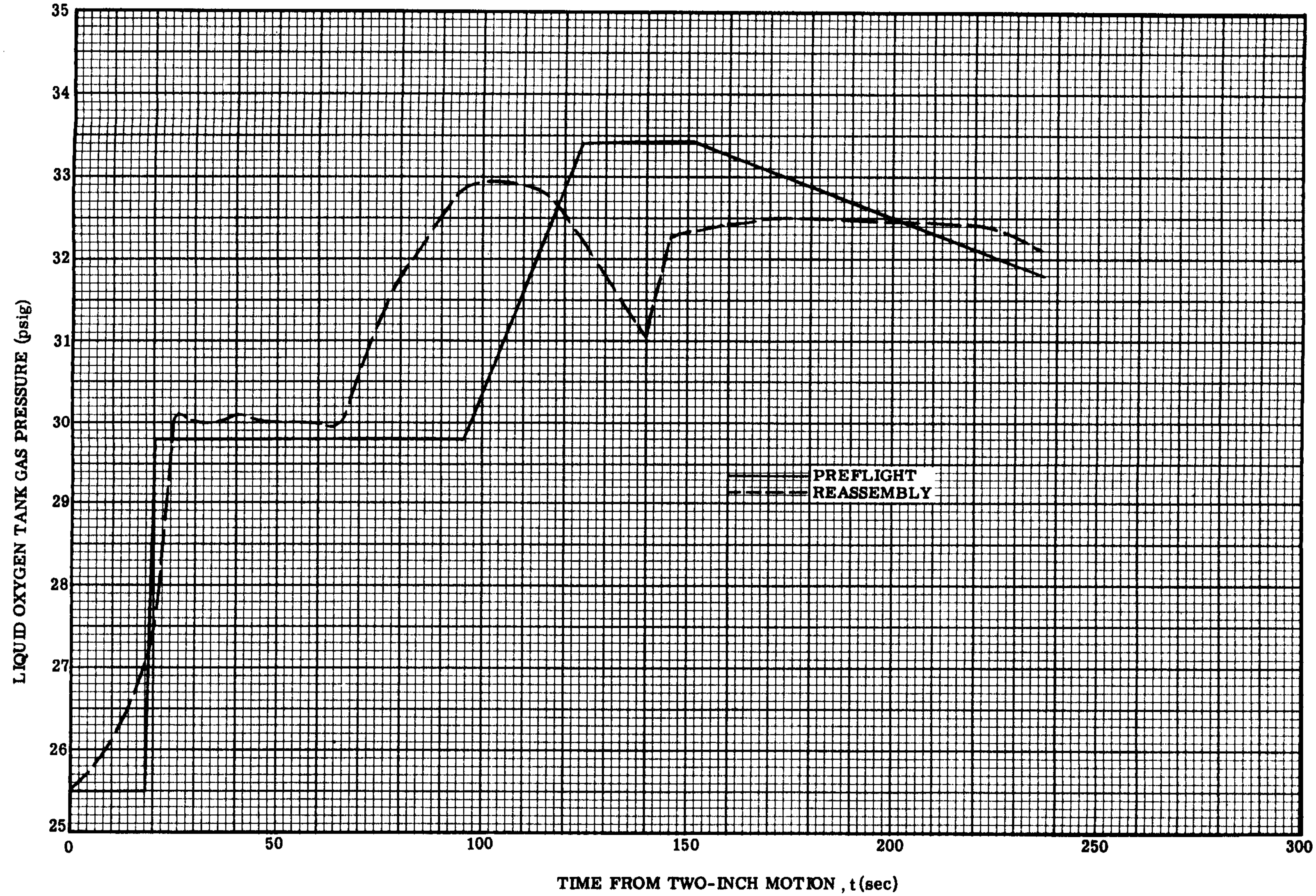

Figure 7-9. Atlas Liquid Oxygen Tank Gas Pressure as a Function of Time

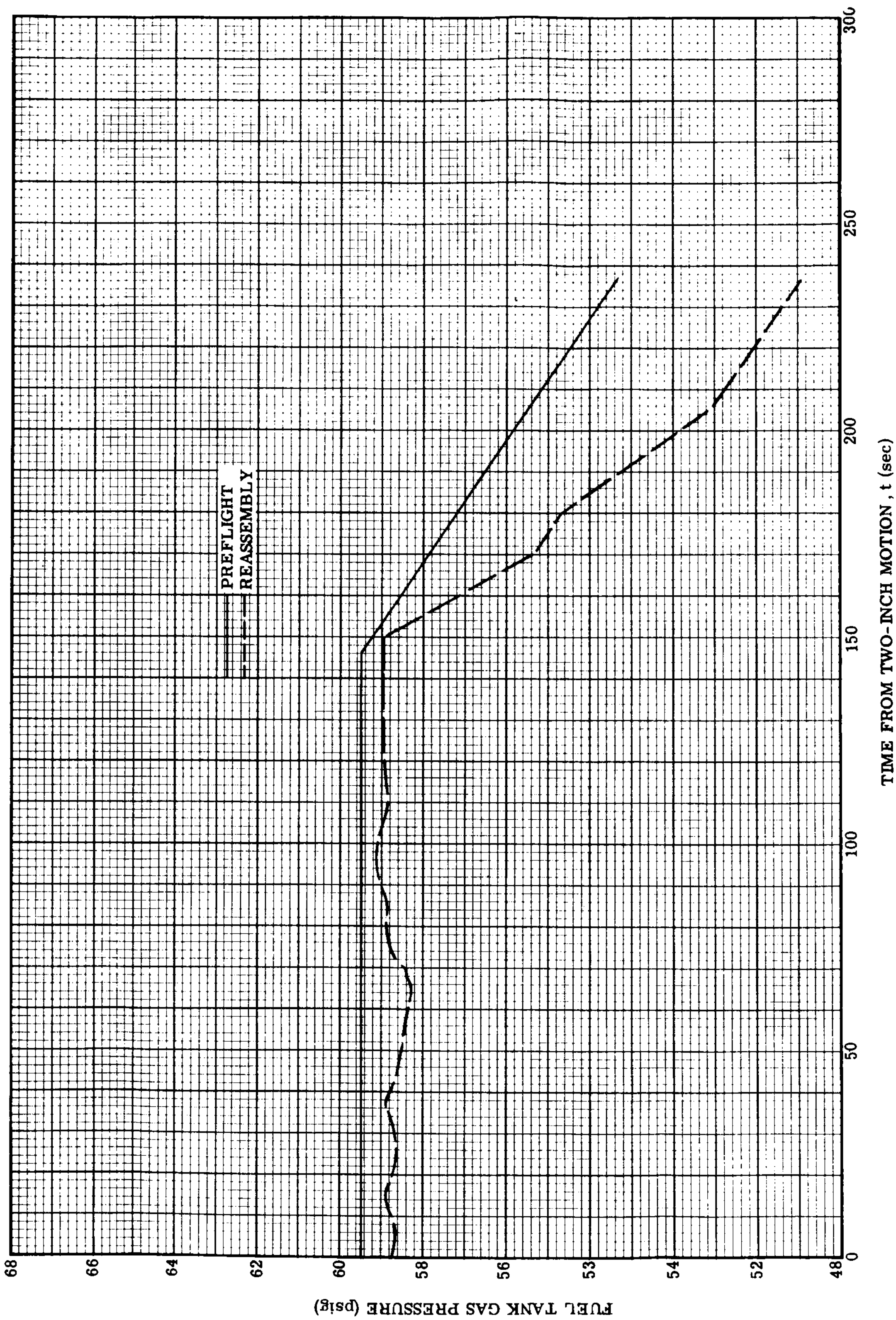

Figure 7-10. Atlas Fuel Tank Gas Pressure as a Function of Time

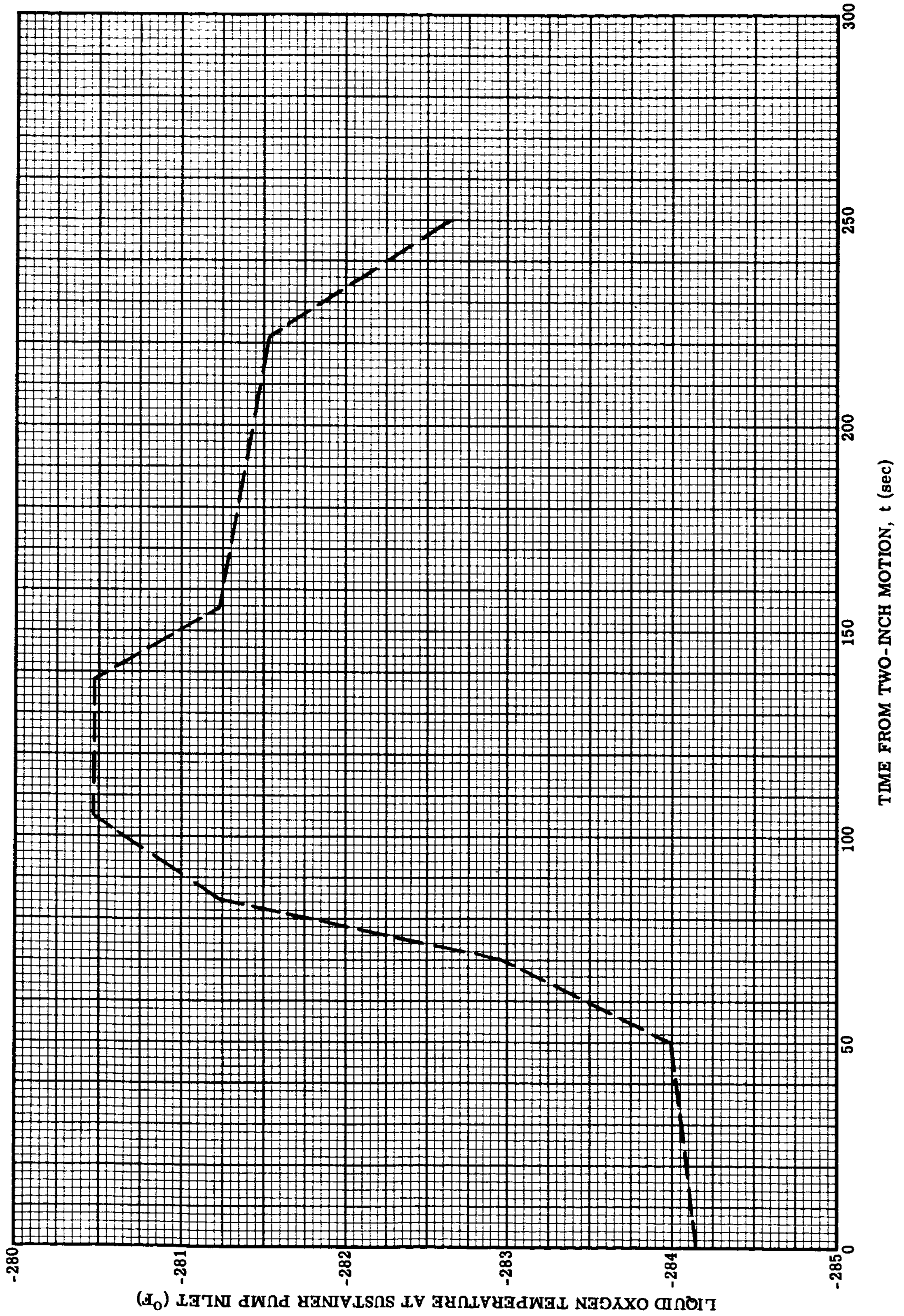

Figure 7-11. Atlas Liquid Oxygen Temperature as a Function of Time

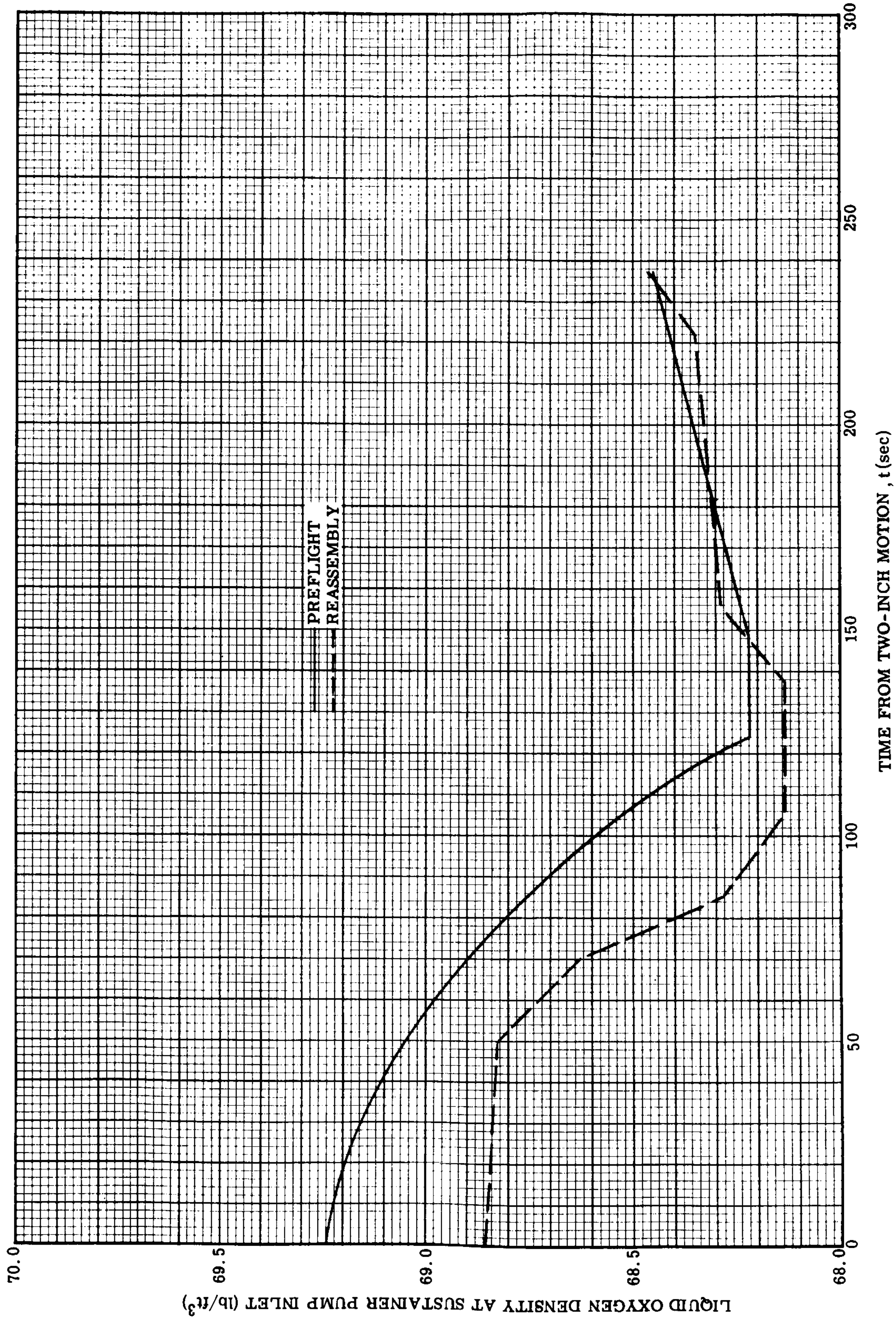

Figure 7-12. Atlas Liquid Oxygen Desisty as a Function of Time

Table 7-5. Atlas Propulsion Comparison, Reassembly and Preflight

PARAMETER	PREFLIGHT	ENGINE ACCEPTANCE	REASSEMBLY	ACTUAL DISPERSIONS (1)		PREDICTED 3-σ TOLERANCE (Reference 13)	
				ABSOLUTE	%	ABSOLUTE	%
(Altitude Reference Conditions)							
Booster Thrust (lb)	375,804	374,207	376,910	+1,106	+0.29	±3,000	±0.80
Booster I_{sp} (sec)	289.91	289.52	287.44	-2.47	-0.85	±2.4	±0.83
Booster Mixture Ratio (LO_2/RP-1)	2.278	2.290	2.264	-0.014	-0.61	±0.023	±1.01
(Sea Level Reference Conditions)							
Sustainer Thrust (lb)	57,000	57,000	58,449	+1449	+2.5	±855	±1.50
Sustainer Plus Vernier I_{sp} (sec)	214.41	213.2	218.52	+4.1	+1.91	+2.8	±1.30
Sustainer Plus Vernier Mixture Ratio (LO_2/RP-1)	2.27	2.27	2.27	0.00	0.00	Not Available	Not Available

(1) Reassembly minus preflight

Thrust-to-weight ratio as a function of time during Atlas booster engine decay is shown in Figure 7-13. The actual thrust-to-weight ratio was calculated using CM101A acceleration data with an output frequency of 20 points per second to determine the shape and guidance accelerometer data to determine the levels. The reassembly decay was determined using the preflight decay and iterating on booster engine start of decay time. As evident in Figure 7-13 this was not an entirely satisfactory procedure to use. The problem with this technique is due to the high correlation between booster start decay time, holddown force, and aerodynamic drag. Decay characteristics determined using the CM101A acceleration data in conjunction with guidance acceleration data are considered to yield quite accurate results; in future reassemblies, it is proposed that these data be used rather than iterating on stage time.

The Atlas sustainer thrust termination for this flight was by a planned propellant depletion mode. For this mode, a normal sustainer engine shutdown procedure consists of a soft shutdown phase and a hard shutdown phase. A description of the shutdown procedure is presented in Reference 2.

Thrust-to-weight ratio during the sustainer engine shutdown is shown in Figure 7-13 for the preflight and reassembly simulation. The reassembly thrust-to-weight ratio decay history was calculated using CM101A acceleration data with an output frequency of 20 points per second to determine the shape and guidance accelerometer data to determine the levels. The small BET-minus-reassembly position and velocity residuals during this phase of the reassembly (Section 6) demonstrates the accuracy of this data reduction technique. Sustainer engine flow rate during the shutdown was calculated assuming that the percentage of LO_2 and fuel flow-rate decay was equal to the percentage LO_2 and fuel pressure decay (measurements P330P and P351P, Reference 7).

The preflight start-of-sustainer-decay occurred at LO_2 residual weight of 704 pounds compared to a value of 677 pounds for the reassembly. However, the thrust decay after the start of soft shutdown is so gradual that an accurate determination of the start decay time from CM101A accelerometer data is impossible. Re-examination of the CM101A data indicates the start of decay could have been as much as 0.2 seconds earlier. If the start of decay were 0.1 seconds earlier than used in this analysis the reassembly and preflight LO_2 residual weights would be in agreement. However, the preflight and reassembly decays, once the decay has started, are quite different. The change in acceleration level, and hence magnitude of thrust change, is approximately equal during the two decays; but, the reassembly soft decay occurs in 1.3 seconds compared to 2.87 seconds for the preflight decay.

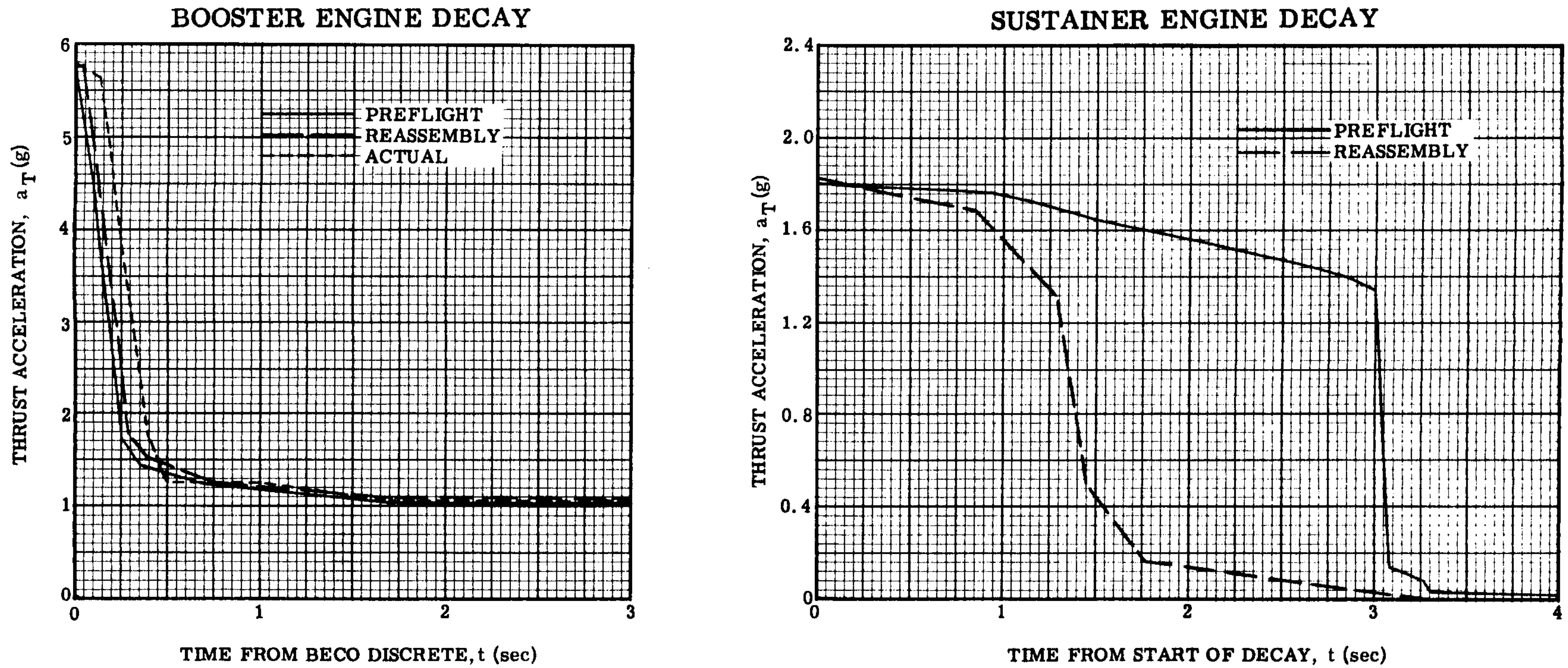

Figure 7-13. Atlas Booster and Sustainer Engine Decay Thrust Acceleration Histories

7.4.2 Centaur-Stage Propulsion. The AC-6 Centaur-stage propulsion differed significantly from previous Centaur-stage propulsion systems. The two main changes were the use of a closed-loop PU system and the use of the Pratt and Whitney RL10A-3-1 engines. The effects of the propellant utilization system on engine performance are illustrated by Figure 7-14. The sudden change in the performance curve at main-engine-start-plus-90-seconds is due to the activation of the PU servo-position valve (programmed from the vehicle autopilot to start functioning at this time) and commencing closed-loop PU operation. At this time (MES + 90 seconds) the engine mixture ratio reaches a maximum/minimum and remains essentially constant due to the PU valve being driven to its mechanical limit constraint by the combination of LH_2 and LO_2 weight dispersions. After the PU valve has reached the mechanical stop position, any increase in tank mixture ratio will not produce an increase in engine mixture ratio. As the PU system gains control, the PU valve will come off the mechanical stop and oscillate about the nominal. This variation is the result of constant correction of flow rates by the PU system. Just prior to MECO the valve again goes to the maximum/minimum mechanical stop because of the uncovering of the LO_2 probe.

The Centaur main engine thrust buildup must be simulated in the reassembly to obtain a good match with flight data. The reassembly thrust buildup (Figure 7-15) was calculated from engine chamber pressure data. The flow-rate buildup history for the reassembly, shown in Figure 7-15, is a modification of the preflight history. These thrust and flow-rate buildup histories are used with each of the total Centaur thrust and flow-rate histories that will be discussed in the following paragraphs.

The preflight trajectory does not simulate the PU system. Constant thrust and flow rate are used as in previous Atlas/Centaur trajectory simulations. Studies have shown that the effect on predicted payload capability of not simulating the PU system is small. However, the use of constant thrust and flow rate histories modified by multiplication factors in the AC-6 reassembly led to a poor match of position and velocity data.

Two other thrust and flow rate histories were investigated in the AC-6 reassembly. The Centaur Thermodynamic Group used the Pratt and Whitney regression equation with postflight input data to generate thrust and flow rate histories. These equations were developed by Pratt and Whitney from environmental control results using randomly-selected combinations of engine inlet conditions and propellant utilization valve angles. Using these equations, the percent nominal mixture ratio, thrust, flow rate, and specific impulse histories can be determined. The inclusion of these thrust and flow rate histories into the reassembly simulation, modified only by multiplication factors, also gave a poor match of position and velocity data. However, if the histories are broken at MES + 90 seconds and MES + 130 seconds, and levels modified independently in the reassembly, a good match is obtained. An even better match is obtained when the gradual decay in engine thrust during the first 90 seconds after MES (due to the engines seeking an equilibrium running temperature after a "cold" start) is simulated.

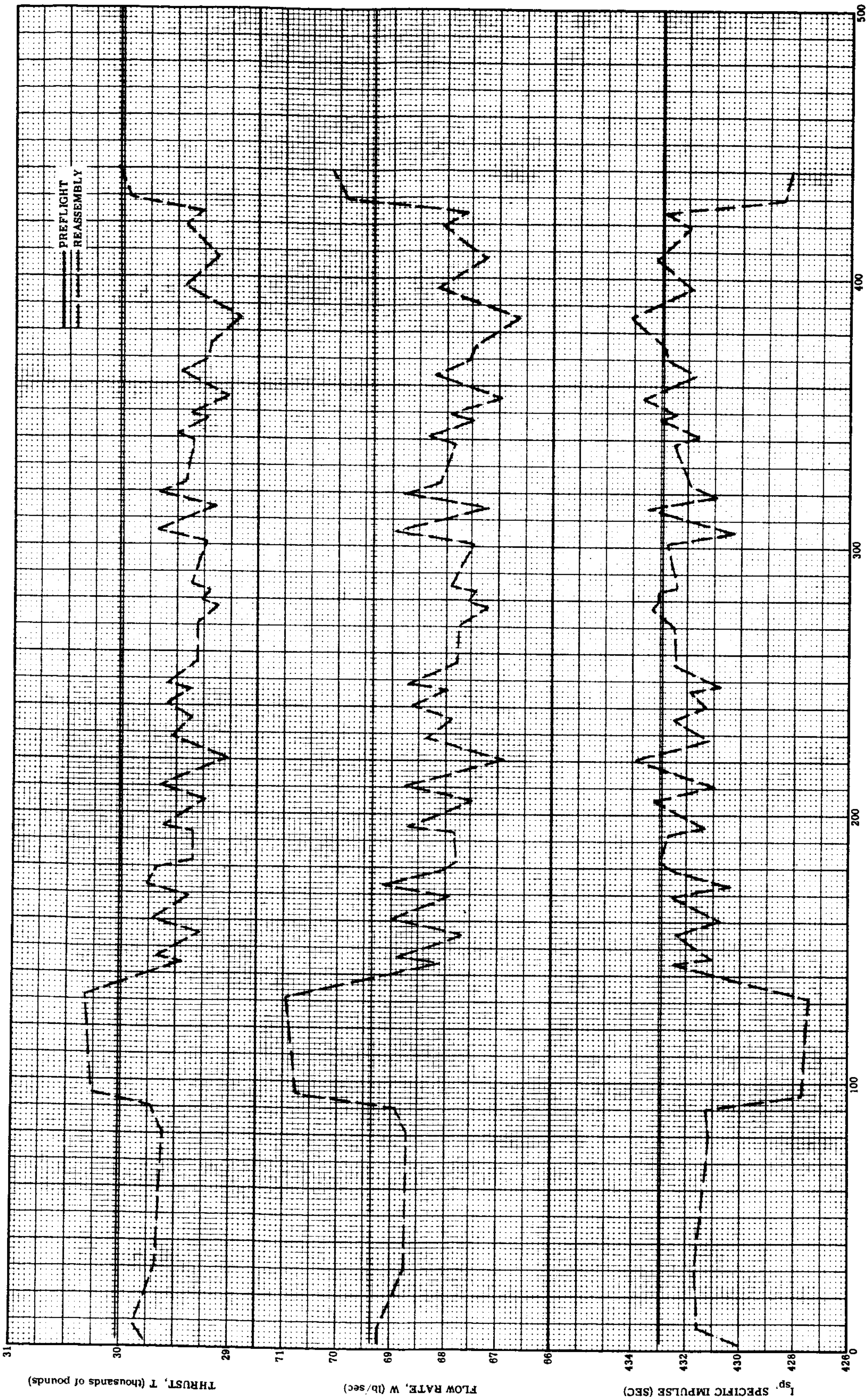

Figure 7-14. Centaur Main Engine Thrust, Flow Rate, and Specific Impulse

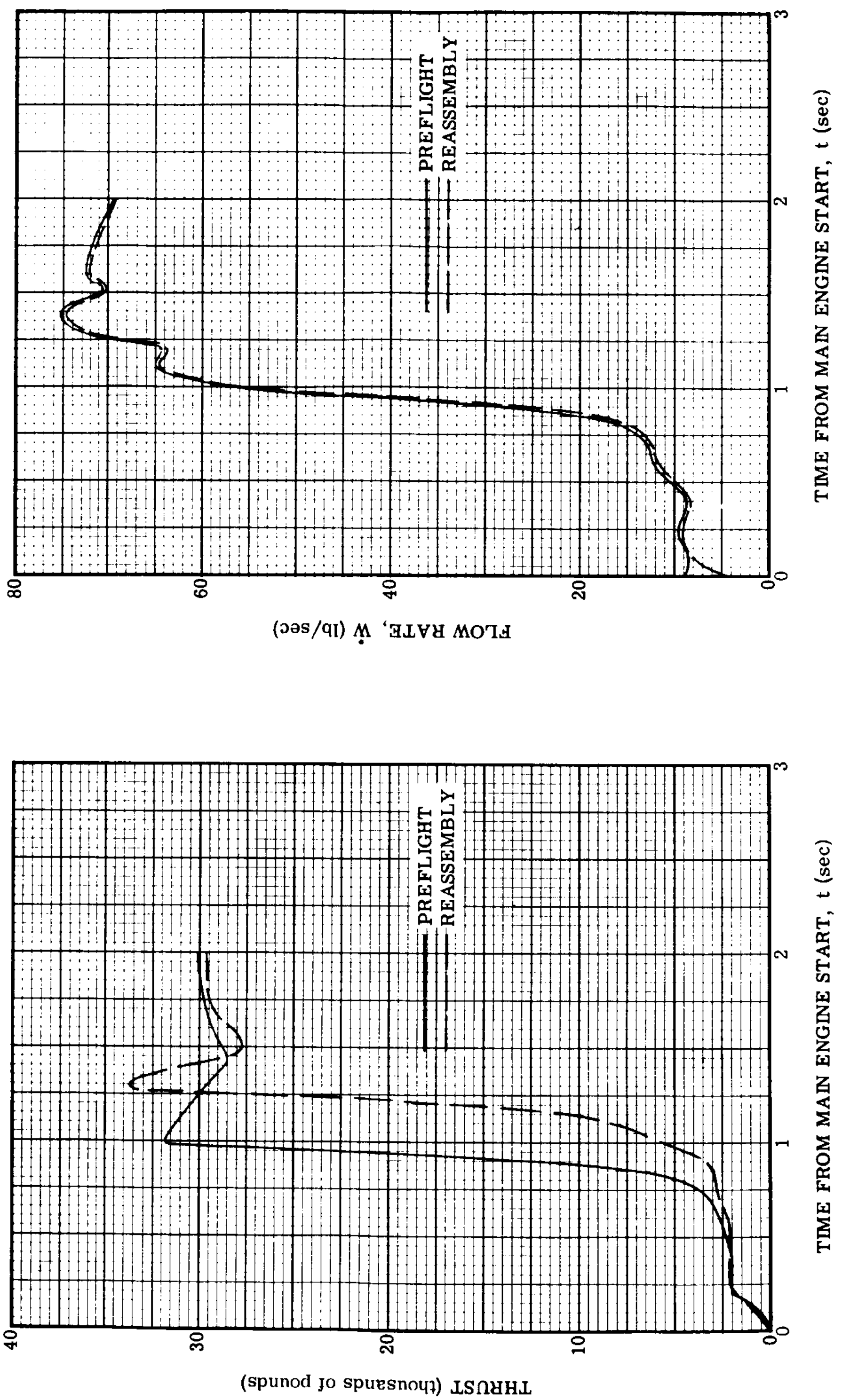

Figure 7-15. Centaur Main Engine Thrust and Flow Rate During Start Transient

This gradual decay is not evident in the histories determined from the Pratt and Whitney regression equations. A program developed by the Centaur Engine System Group (the second source for thrust and flow rate data) generates propulsion data by iterating on the engine mixture ratio. This program uses flight measured chamber pressure, venturi temperature, and venturi pressure as input. The result is engine thrust, specific impulse, mixture ratio, and propellant flows from MES + 4.0 seconds until MECO. Although the levels of these thrust and flow rate histories are evidently in error, these data when modified by multiplication factors in the reassembly give the best match of position and velocity of all the thrust and flow rate histories except the modified regression equation. Since the modified regression equation thrust and flow rate histories are essentially custom tailored by the reassembly, these data are not used in the AC-6 reassembly. The AC-6 reassembly is based on the Centaur Engine System Group thrust and flow rate histories (chamber pressure data).

Here is a comparison of the reassembly position and velocity reasiduals for the thrust and flow-rate histories investigated:

	MAXIMUM POSITION ERROR (Ft)	MAXIMUM VELOCITY ERROR (Ft/Sec)
Constant Thrust	1000	13
Regression Equation	700	10
Modified Regression Equation (3 Sections, 3 Multipliers, and Thrust Decay During First 90 Seconds)	160	3
Chamber Pressure	260	4

Centaur main engine thrust from the reassembly is 29,525 pounds. This compares to the value of 30,033 for the preflight simulation. The reassembly value of vehicle I_{sp}* is 431.0 versus 432.3 seconds for the preflight simulation. Correcting the reassembly value for boost pump hydrogen-peroxide flow and boost pump thrust yields an I_{sp}** of

* Specific impulse (I_{sp}) is the ratio of thrust to flow rate. Therefore, vehicle I_{sp} is the ratio of the sum of all the thrusts acting on the vehicle to the sum of all the flow rates for the vehicle.

** The engine I_{sp} is the ratio of main engine thrust to the propellant flow rate through the main engine.

431.6 seconds. (Reassembly values of thrust and specific impulse were determined by taking the mean of the thrust and I_{sp} when the PU valve was at a null condition.) For comparison, the mean values of thrust and engine I_{sp} determined from the Pratt and Whitney regression equations with the PU valve at a null condition are 29,950 pounds and 434.4 seconds respectively.

Centaur vehicle I_{sp} was also calculated from guidance computer thrust-velocity data. These data are first corrected for accelerometer scale factor, bias, and misalignment errors determined from preflight measurements, and then differentiated to obtain thrust acceleration. Vehicle I_{sp} is obtained directly by curvefitting the reciprocal of thrust acceleration as described in Reference 13 and 14. This technique is based on the assumption that the thrust is constant over the period of time being considered. The AC-6 thrust and flow rate histories are obviously not constant, but if the technique is used over the period when thrust is essentially oscillating about a mean value (386-667 seconds); the computed vehicle I_{sp} is 435.4 seconds. However, the thrust during this period is not only oscillatory, the mean value is varying more or less linearly with time. Vehicle I_{sp} computed from the reassembly using this technique (curvefitting the reciprocal of thrust acceleration) over the same time interval (386 to 667 seconds) is 435.6 seconds. However, the maximum Centaur vehicle I_{sp} from the reassembly (calculated as the ratio, at any time, of reassembly thrust to reassembly flow rate) is only 433.5 seconds. Based on the above and the analysis of this method of obtaining I_{sp} during the sustainer stage (Section 7.4.1), it is recommended that this method not be used except when thrust is truly constant.

As indicated, Centaur propulsion parameters determined by the various available postflight techniques are not in agreement. These parameters are important in the determination of total vehicle performance. In particular, Centaur specific impulse is one of the most important parameters in determining Atlas/Centaur performance. Each second increase in Centaur I_{sp} causes a 28-pound increase in Surveyor-mission payload capability. Thus, the value of specific impulse must be known accurately to predict the true net vehicle performance capability. In addition, specific impulse dispersions about this value should be small and known accurately. If the specific impulse dispersion possible during flight is large, then a significant portion of vehicle weight that could be considered payload must be assigned to a propellant pad (Flight Performance Reserve). This pad is required to ensure, statistically, the delivery of the required payload into the specified orbit.

Because of all the discrepancies in the various engine models investigated, the AC-6 Centaur propulsion reassembly results are questionable. In order to achieve better results, a more accurate engine system simulation model must be defined.

A compendium of the values of Centaur I_{sp} based on preflight and postflight analysis for vehicle AC-2, -3, -4 and -6 is presented in Table 7-6. The RL10A-3 engine specifications apply to each of these flights except AC-6 which used the RL10A-3-1 engines.

Table 7-6. Compedium of AC-2, AC-3, AC-4 and AC-6 Vehicle I_{sp}

	AC-2 I_{sp} (sec)	AC-3 I_{sp} (sec)	AC-4 I_{sp} (sec)	AC-6 I_{sp} (sec)
Engine Specifications (RL10A-3 & RL10A-3-1 for AC-6) (1)	426.3	426.3	426.3	432.4
P&W Acceptance Data (1)	428.8	430.8	431.0	434.3
Reassembly	431.7	431.4	430.9	431.0
P&W Regression Equations (1)	428.3	431.1	430.4	434.0
Curve Fit of Guidance Acc. Data	431.1±3	436.7±9	431.0±3	435.4

(1) Reduced to account for boost pump hydrogen-peroxide expenditure

7.5 WEIGHTS

7.5.1 Launch Day Weights. The following weights information was determined by the Convair Centaur Weights Group (Centaur propellant residuals were determined by the Centaur Control Systems Group).

a. Hardware

1. Table 7-7 is a list of San Diego actual weights and delta weights due to subsequent modifications prior to flight.

Table 7-7. San Diego Actual Weights and Delta Weights

COMPONENT	S. D. ACTUAL (lb)	DELTA (lb)
Interstage Adapter	1078	+9
Sustainer Dry	5667	Data not available
Booster Dry	6208	Data not available
Centaur Dry	3636	+7
Insulation Panels	1230	-12
Nose Fairing	1985	+21
Payload	2108	-24

2. Hardware weight uncertainties, as listed in Tables 7-8, 7-9, and 7-10, reflect only those random errors inherent in the weighing activities. Atlas booster and sustainer sections were weighed in a device consisting of four mechanical scales and two fixtures, one forward and one aft, that rest on two scales each. The Centaur vehicle was weighed in a horizontal position with overhead loadcells, two forward in tandem and two aft in tandem. The conical sections of the nose fairing, the insulation panels, and the interstage adapter were each weighed with overhead tandem loadcells. The barrel sections of the nose fairing were each weighed on two mechanical scales.

b. Propellant Loading

1. Fuel was tanked aboard the Atlas on 9 August 1965. Based on a density computed from temperature and API measurements, the fuel weight was computed to be 76, 645 pounds. On the following day an additional 200 pounds were tanked in order to make the 100-percent probe indicate wet. Due to the long hold before aborting on the 10 August 1965 launch attempt, the fuel became cold soaked with a corresponding density increase and volume decrease. Consequently an additional 65 gallons were tanked to bring the fuel level to the 100-percent probe on launch day. The net effect of these toppings was an additional 635 pounds of fuel bringing the total RP-1 tanked to 77, 280 pounds.

2. Atlas LO_2 topping was terminated with the liquid level at or above the topping high probe. It was necessary to top to this level rather than between the topping high and topping low probes due to the topping low probe being inoperative. At tanking complete, the LO_2 ullage pressure was recorded as 10. 76 psig. The density associated with this pressure is 69. 24 lb/ft^3; the estimated LO_2 weight is 175, 717 pounds. When the pressure was stepped to flight level, entrapped gas bubbles were forced into the ullage, and 450 pounds of liquid were dumped overboard through the vernier vent system.

3. Centaur LH_2 tanking was secured with the 99. 8-percent probe indicating wet. The ullage pressure was 6. 33 psig. The density was computed to be 4. 198 lb/ft^3 and the weight at Atlas liftoff was 5,271 pounds.

4. Centaur LO_2 tanking was secured with the 100. 2-percent probe indicating wet. The ullage pressure was recorded as 15. 63 psig and the density was computed to be 68. 65 lb/ft^3. The LO_2 weight at Atlas liftoff was 25, 434 pounds.

c. Residuals

1. Residuals are those liquids and gases that are aboard the vehicle at the instant of engine cutoff and are not expendable.

2. Atlas residuals are those listed in Tables 7-8 and 7-9.

3. Centaur residuals are those listed in Table 7-10. The propellant residual in each tank was measured by the Advanced Propellant Utilization System. The LO_2 residual was also measured by a point level sensor (CU11X) at station 442.47 and agreed with the PU system data within 0.2 inches, or 38 pounds. The PU system data were corrected for thrust angle and inertia tube lag. The point sensor data were corrected for the thrust angle. The residual uncertainty was determined from the mast below the PU sensor and from the propellant consumption from PU probe uncovery to main engine cutoff.

Table 7-8. Weight Summary, Booster Stage

BOOSTER STAGE WEIGHTS	WEIGHT (lb)	DISPERSION
Hardware	(6208)	(±30)
Body Group	1895	
Propulsion Group	3323	
Hydraulic and Pneumatic Group	858	
Electrical Group	48	
Instrumentation Group	84	
Residuals	(1146)	(±89)
Trapped RP-1	487	±50
Trapped LO_2	554	±70
Helium	76	±17
Unburned Lube Oil	29	±17
Total Jettison Weight	(7754)	(±93)

Table 7-9. Weight Summary, Sustainer Stage

SUSTAINER STAGE WEIGHTS	WEIGHT (lb)	DISPERSION
Hardware	(6,754)	(±50)
Interstage Adapter	1,087	
Body Group	2,915	
Separation and Destruct Systems	43	
Propulsion Group	1,262	
Propellant Utilization	123	
Hydraulic and Pneumatic Group	396	
Electrical Group	311	
Guidance	205	
Instrumentation Group	412	
Residuals	(1,671)	(±267)
Trapped RP-1	131	±35
Trapped LO_2	119	±43
RP-1 Above Pump	297	±50
LO_2 Above Pump	415	±100
Unburned Lube Oil	17	±6
Gaseous Nitrogen	2	±1
Gaseous Oxygen	603	±235
Helium	87	±17
Total Jettison Weight	(8,425)	(±271)
Flight Expendables	247,904	(±1,568)
Main Impulse RP-1 + Decay	75,829	±877
Main Impulse LO_2 + Decay	171,881	±1,300
Lube Oil	173	±15
Gaseous Oxidizer Vent	15	±3
Helium - Airborne Chill	6	±1
Ground Expendables (2.05 seconds)	(2,877)	(±336)
RP-1 Expended	536	±87
LO_2 Expended	1,658	±210
Lube Oil Expended	3	±1
Exterior Frost Dumped	50	±40
LN_2 Dumped	140	±140
LO_2 Overboard Vent	40	±10
Pre-Ignition GO_2 Loss	450	±200
Total Atlas Weight at Liftoff	(263,683)	(±1,594)

Table 7-10. Weight Summary, Centaur Stage

CENTAUR STAGE WEIGHTS	WEIGHT (lb)	DISPERSIONS
Hardware - Basic	(5,727)	(±10)
Body Group	940	
Propulsion Group	1,192	
Guidance Group	310	
Control Group	117	
Pressurization Group	138	
Electrical Group	266	
Separation Equipment	80	
Flight Instrumentation	447	
Miscellaneous Equipment	153	
Payload	2,084	
Hardware - Jettisonable	(3,230)	(±14)
Nose Fairing	2,005	±10
Tank Insulation	1,225	±10
Residuals (at MECO)	(719)	(±64)
Trapped LH_2	66	±5
Trapped LO_2	68	±5
Unburned LH_2 { Includes LH_2 Bias	81	±11
Unburned LO_2 { and FPR	195	±49
Gaseous Hydrogen	86	±17
Gaseous Oxygen	158	±32
Hydrogen Peroxide	49	±4
Helium	4	±1
Ice	12	±12
Expendables (Excluding Ground Vent)	(30,151)	(±249)
Main Impulse LH_2	4,969	±49
Main Impulse LO_2	24,874	±244
Ground Vent - Hydrogen	6	±1
Ground Vent - Oxygen	35	±1
Inflight Chill - LH_2	11	±2
Inflight Chill - LO_2	13	±2
Boost Phase Vent - Hydrogen (Incl. Sust.)	58	±5
Boost Phase Vent - Oxygen (Incl. Sust.)	126	±7
Hydrogen Peroxide	49	±4
Helium	1	±1
Ablated Ice	50	±10
Total Centaur Weight at Liftoff	(39,827)	(±271)

7.5.2 <u>Centaur Propellant Expendables and Residuals.</u> The reassembly weights are the same as the weights for the preflight trajectory (Section 2) except for Centaur main impulse expendables and residuals. An evaluation of these quantities from flight data was possible on AC-6 because the residual probes uncovered. Matching the residual weight at MECO was attempted in the reassembly with adverse effects (position and velocity match errors were doubled). However, by allowing the reassembly to determine the proper value, MECO weight was match within 34 pounds; this is within the ±50 pound tolerance of the flight-determined residual weights. Postflight information obtained from Centaur Weights and Centaur Control System Groups yield:

	WEIGHT of LO_2 (lb)	WEIGHT of LH_2 (lb)
Tanked propellants at liftoff	25,434	5,271
Expended and gaseous propellants	25,171	5,124
Propellant residual (at MECO, including trapped LH_2 = 66 lb and LO_2 = 68 lb)	263 ±49	147 ±11
Remaining usable	195	81
Total usable		276

The total weight of usable propellants at main engine cutoff is usually zero for the preflight trajectory, however, a flight performance reserve of 180* pounds and a propellant utilization system LH_2 bias of 60 pounds could be used to provide main engine impulse. However, only the amount of residuals in a ratio equal to the engine null mixture ratio could be burned. For AC-6 payload capability analysis (Section 7.1), it was assumed that the residuals in excess of trapped, gaseous, and propellant-utilization-system LH_2 bias (LH_2 bias equal to 60 pounds for compatibility with preflight analysis) could be simply replaced by payload. Excess residuals were, thus, equal to 216 pounds (276 lb - 60 lb).

* Including a 20-pound margin to account for the probable error in FPR due to using an idealized guidance simulation for FPR determination.

7.6 AERODYNAMIC CHARACTERISTICS. An early analysis of Atlas booster phase (Reference 16) showed a consistent pattern of differences between preflight and postflight acceleration data for AC-2, -3, and -4 that suggested a revision of an axial-drag coefficient and an addition of a separate base thrust term. Since the forebody drag component is well known from wind tunnel testing, errors in the drag model were attributed to inadequate simulation of engine-on base-pressure effect. Formerly, the base thrust at altitude was considered a negative drag effect (note preflight drag coefficient Figure 7-16), and was therefore computed as a function of dynamic pressure and Mach number.

Reference 16 was later reviewed and slight changes were made on the basis of both the review and the incorporation of more detailed AC-4 reassembly results. The revised drag simulation thus determined has been incorporated in current Atlas/Centaur preflight simulations. This revised drag simulation (Reference 17) and the analysis leading to its adoption are discussed in this section.

The delta force curves shown in Figure 7-17 were generated in the following manner. Preflight weight was multiplied by preflight acceleration and plotted versus preflight pressure ratio (P/P_0). Postflight reassembly weight was multiplied by postflight guidance acceleration and plotted versus pressure ratio from the reassembly. These two curves were then differenced at the same pressure ratio and the results are the curves of Figure 7-17. These curves show that there is a consistent error for the four Atlas/Centaur flights. The same values when plotted versus time did not show a consistent error, indicating that the error is pressure dependent rather than time dependent.

The booster package is jettisoned before the pressure ratio reaches zero, so the last part of delta force curve can not be determined accurately. Since the last few data points available appeared to be linear, a straight line was arbitrarily extrapolated through them (this is indicated by the dashed portion of the curves). A considerably smaller value for delta axial force at $P/P_0=0$ could be obtained if the change in the slope with respect to P/P_0 is considered. From theoretical considerations, it is highly probable that the base force at zero ambient pressure is very small.

Although no particular function of ambient-pressure-dependent base force could be rigidly justified on the basis of the available data, a linear approximation of $BF = 4500\,(1-P/P_0)$ lb was mutually agreed upon by LeRC and Convair representatives for interim use in an empirically revised drag model. Once the pressure-dependent base

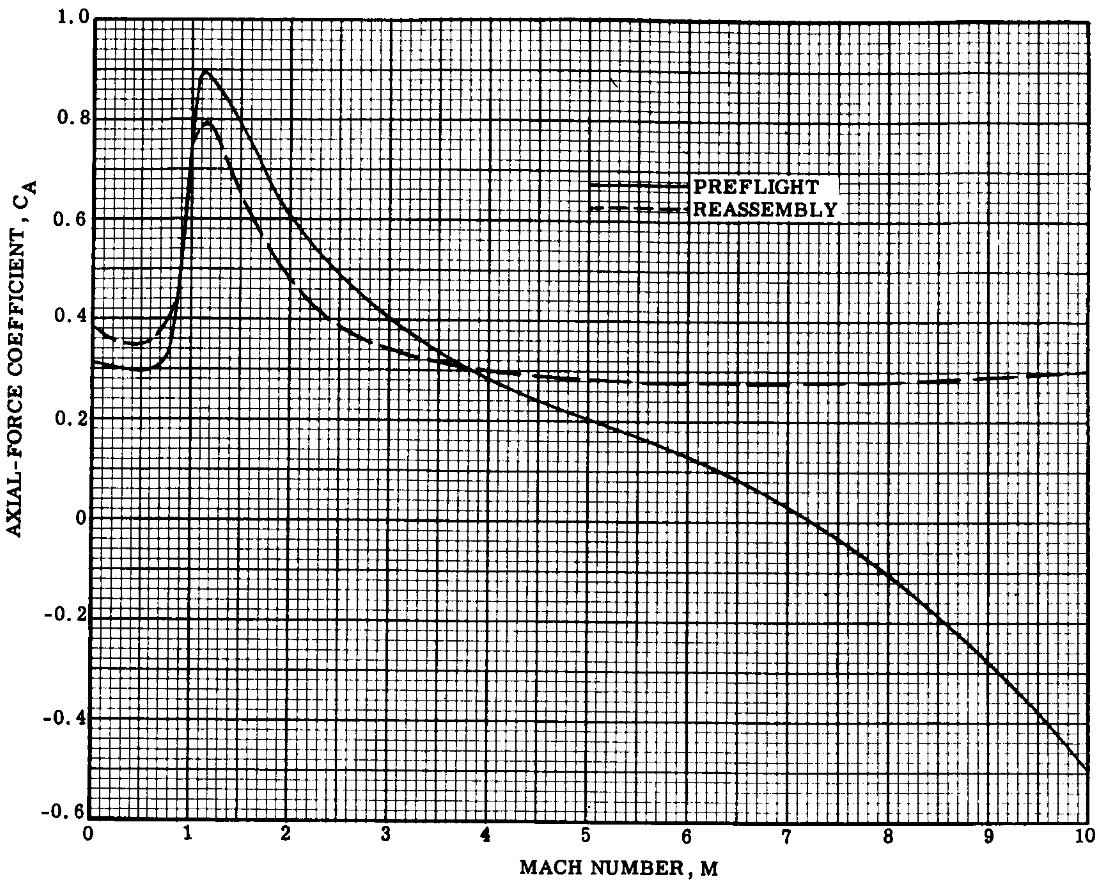

Figure 7-16. Mach Number Variation of Aerodynamic Axial-Force Coefficient, $\alpha_T = 0$

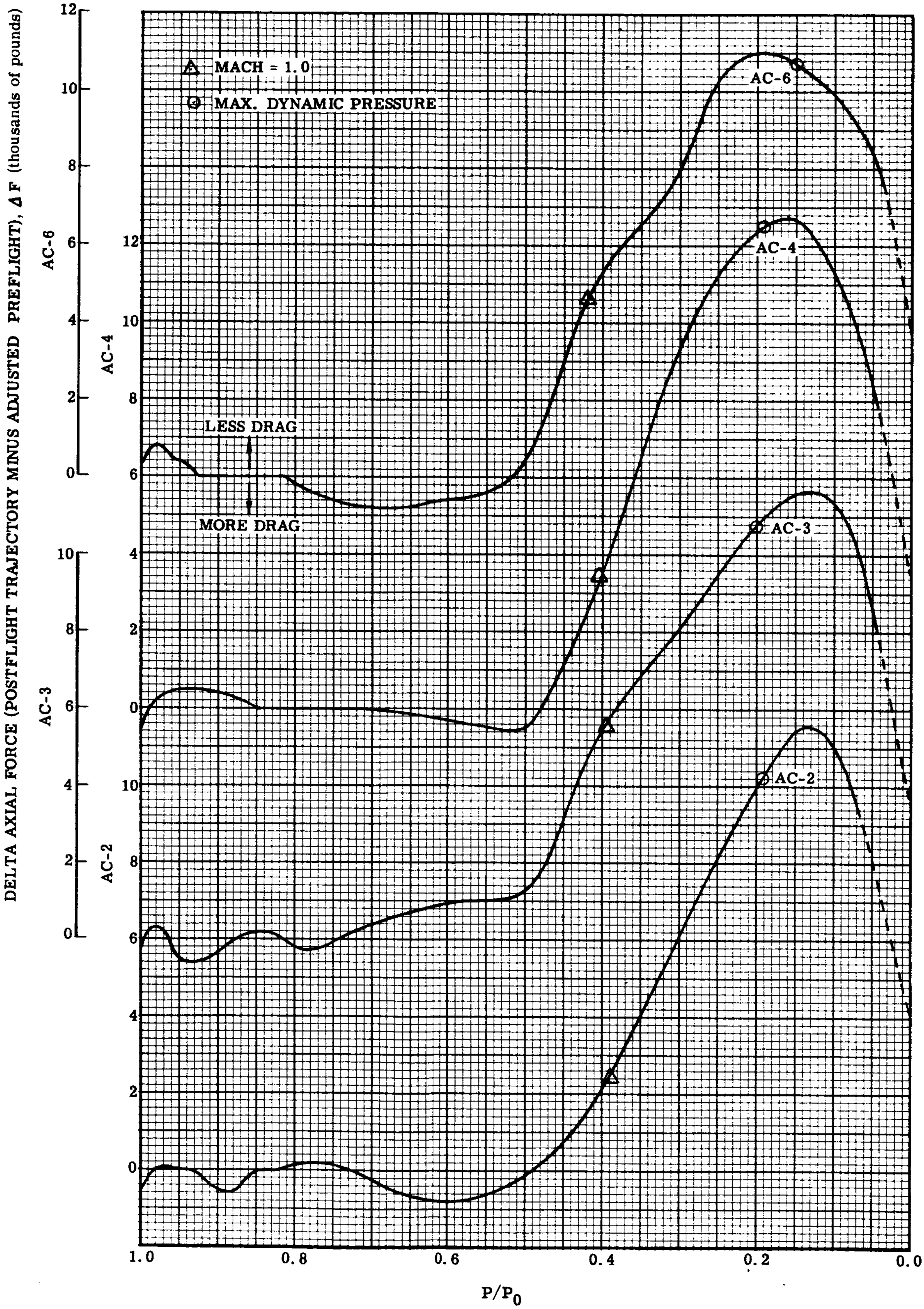

Figure 7-17. Delta Axial Force versus Pressure Ratio

force and holddown force terms were defined, the analysis turned to revision of the q-dependent drag coefficient. The old drag coefficient was modified to essentially eliminate the delta force not accounted for by the base pressure or holddown terms. (The AC-4 postflight reassembly was used.) Errors in the AC-4 acceleration history were thus reduced to within the noise level of the measured acceleration data. Although derived primarily from AC-4 data, proof of the general applicability of the revised drag model has been demonstrated empirically by the marked improvement of acceleration matches in the AC-2, AC-3, and AC-6 trajectory reassemblies (Figure 7-18).

The revised drag model gives a payload gain of 82 pounds. By direction of LeRC, 30 of the 82 pounds were added to the FPR as a contingency for base drag uncertainty pending further flight test data.

The AC-7, -8, and -9 flights will have extensive base pressure instrumentation. This information should contribute to a better understanding of the factors that affect the engine-on base pressure. It may then be possible to further revise the drag model to coincide more nearly with the actual physical situation.

7.7 HOLDDOWN FORCE. As discussed in Reference 16, there is a holddown force exerted on the missile by the launcher release mechanism during the vertical rise after 2-inch motion. This force contributes to the acceleration difference between predicted and flight-test data and thus, should be simulated if the reassembly solution is to be meaningful. Recent studies indicate there is an additional holddown force, which has been attributed to a base suction force at liftoff. This force is included in the holddown simulation. Holddown force was determined in the AC-6 reassembly by using a holddown force multiplication factor (K) as a control variable. The reference holddown force was that determined for AC-4 (Figure 7-19) with K = 1. The reassembly value of holddown multiplication factor determined for AC-6 is 0.386.

As a result of later attempting this type of reassembly with a preflight drag model, it was found that the reassembly holddown multiplication factor is a strong function of the drag model used. Unless the drag model is extremely accurate, it is undesirable to use holddown force as a control variable. For future reassemblies, it is recommended that flight-measured data such as the guidance-telemetered thrust velocity, CM101A acceleration and/or theodolite data be used to calculate holddown force.

7.8 FLIGHT CONTROL. Vehicle AC-6 was launched on a planned azimuth of 94.539 degrees true. A programmed positive roll of 20.461 degrees is required for this azimuth since the vehicle is initially aligned at an azimuth 115 degrees. The required roll rate is +1.5739 deg/sec based on rolling between T+2 and T+15 seconds. The actual roll rate from the reassembly is +1.5533 deg/sec, which is equal to a total roll through 20.193 degrees. The difference between the preflight and reassembly roll is well within the 3-sigma tolerance.

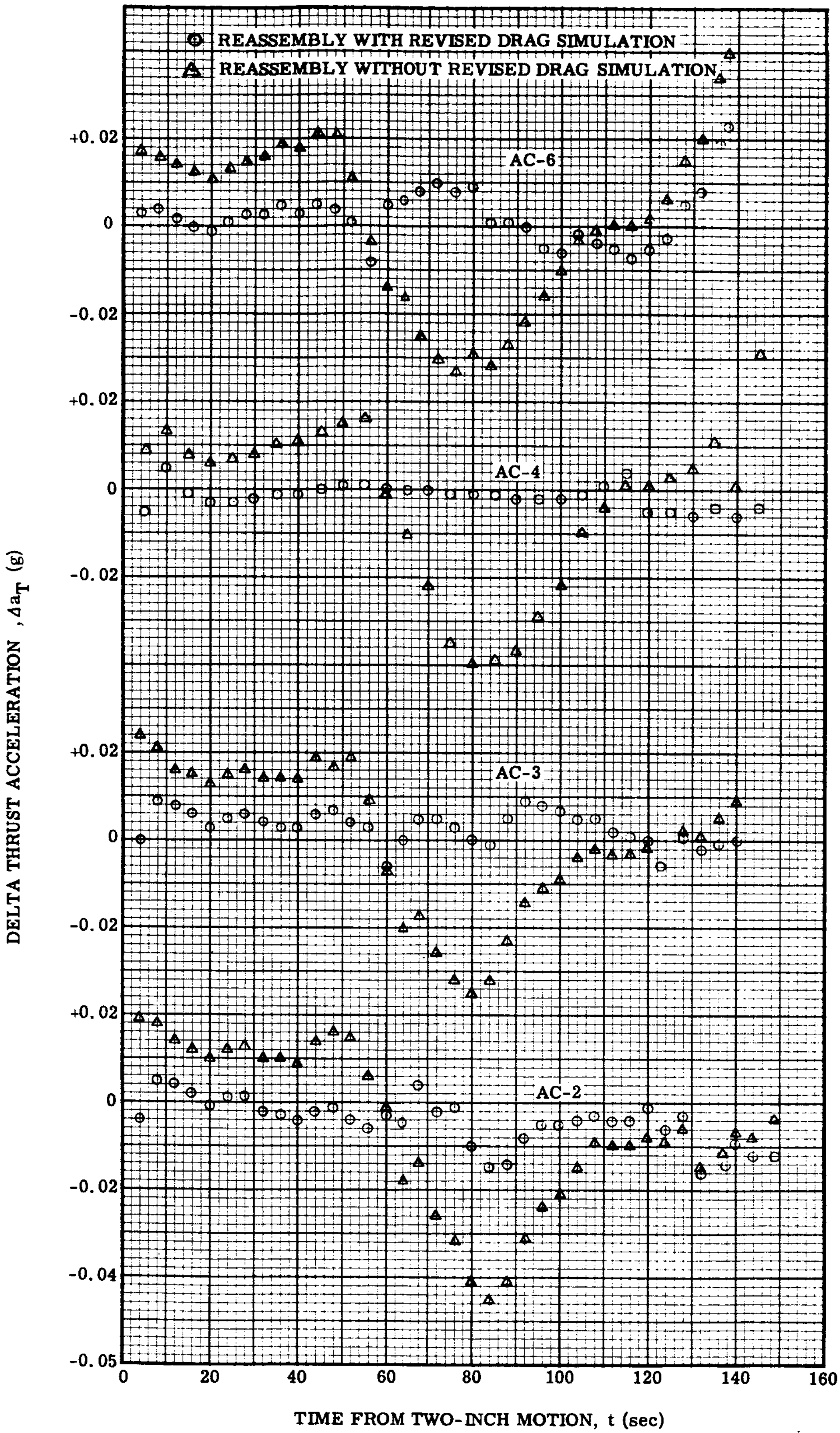

Figure 7-18. Acceleration Error Histories

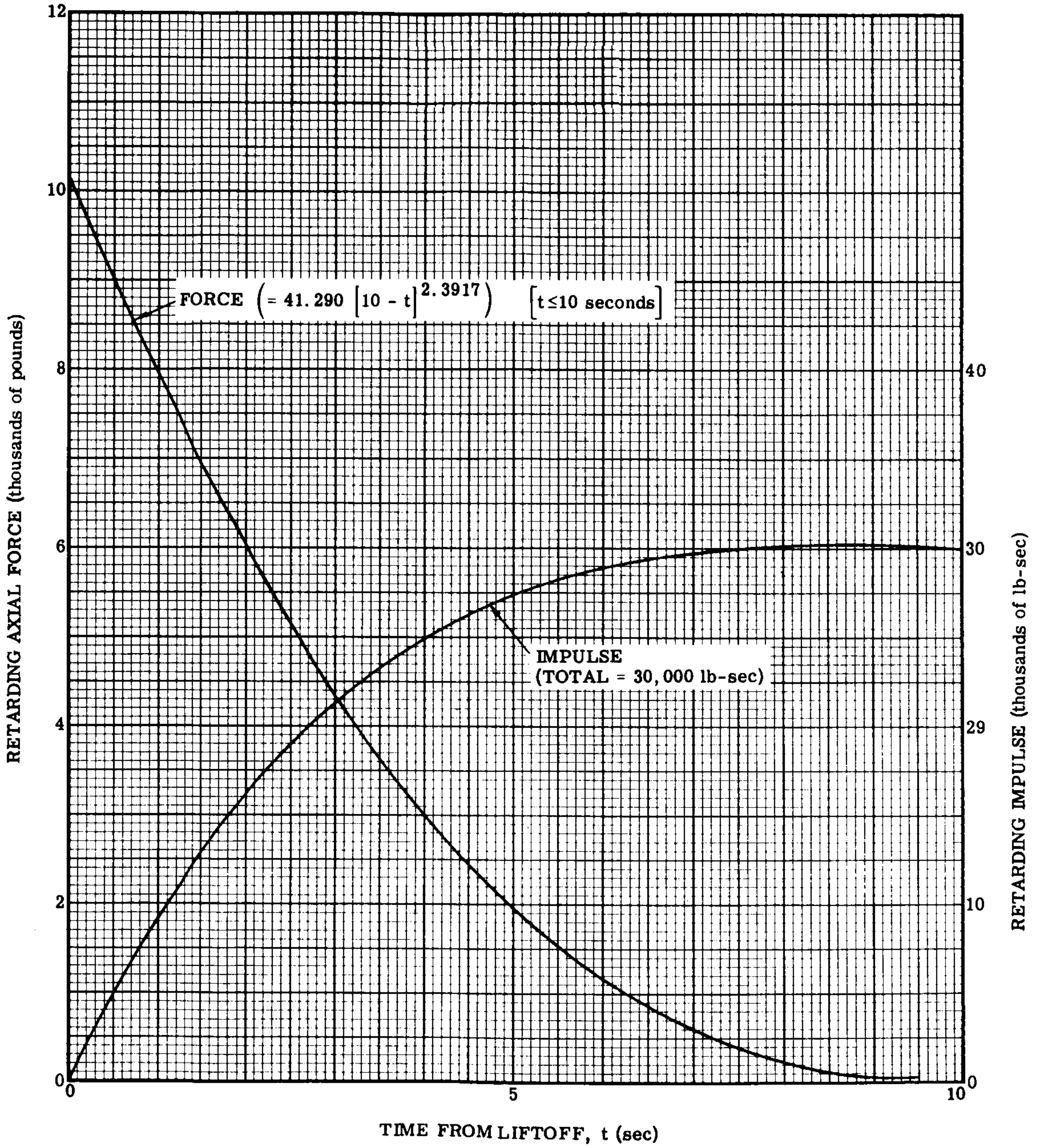

Figure 7-19. Holddown and Base Suction Force

During the phase from liftoff to booster engine cutoff, the autopilot provided pitch attitude control through a series of programmed constant pitch rates (pitch rate plateaus). Nominal and reassembly command pitch rate for vehicle AC-6 is shown in Figure 7-20. The reassembly was generated using the nominal command pitch rate modified by a constant pitch rate multiplier. The pitch multiplier (TLTX) required to give the best match of the guidance tracking data TLTX = 1.0138306, gives an effective pitch that is well within the 3-sigma pitch program tolerance of 5 percent. This was accompanied by a pitch drift of -0.00546 deg/sec (nose up) and a yaw drift of -0.0015 deg/sec (nose right). The overall effect was a pitch excess that reduced slightly the lofting on this flight. The inertial pitch attitude (ψ) of the reassembly was 0.133 degrees lower than the preflight inertial attitude at 140 seconds from liftoff.

The pitch attitude history, from liftoff to sustainer engine cutoff, is shown in Figure 7-21 for the preflight and reassembly trajectories. Also shown is pitch attitude from flight data determined from telemetered guidance computer thrust velocities. The reassembly match of the flight data is considered good. The existing differences are partly due to the fact that the trajectory is a steady-state simulation which does not simulate the transients of the autopilot. However, the primary reason is that the flight data is only an approximation of vehicle attitude, and it is in error due to the effects of engine gimballing and aerodynamic forces.

The pitch and yaw steering signals to the autopilot, during the sustainer and Centaur phases, were generated by the Minneapolis-Honeywell all-inertial vehicle guidance set located on the Centaur stage. The vehicle guidance set is physically separated into five major packages:

a. Inertial platform assembly

b. Platform electronics package

c. Computer

d. Signal conditioner

c. Pulse rebalance electronics, gyro torquer, and power supply package.

The attitude control provided by the Centaur guidance set was simulated in the reassembly using pitch-, yaw-, and roll-rate histories calculated from guidance computer telemetered thrust-velocity data. The pitch rates were determined every second by first differentiating the thrust-velocity components to obtain the accelerations along each axis of the U, V, W inertial axes system. Inertial attitude was then calculated, assuming the thrust axis (defined by the accelerational components) was aligned along the vehicle longitudinal axis. Pitch, yaw and roll rates were obtained by differentiating the inertial attitude history. In the reassembly, additive pitch and yaw rates were used as control variables to modify the pitch and yaw rates to obtain the best match. The additive pitch and yaw rates during the sustainer phase were -0.00585 and +0.00119 deg/sec respectively. During the Centaur phase, the pitch rate was +0.000440 deg/sec

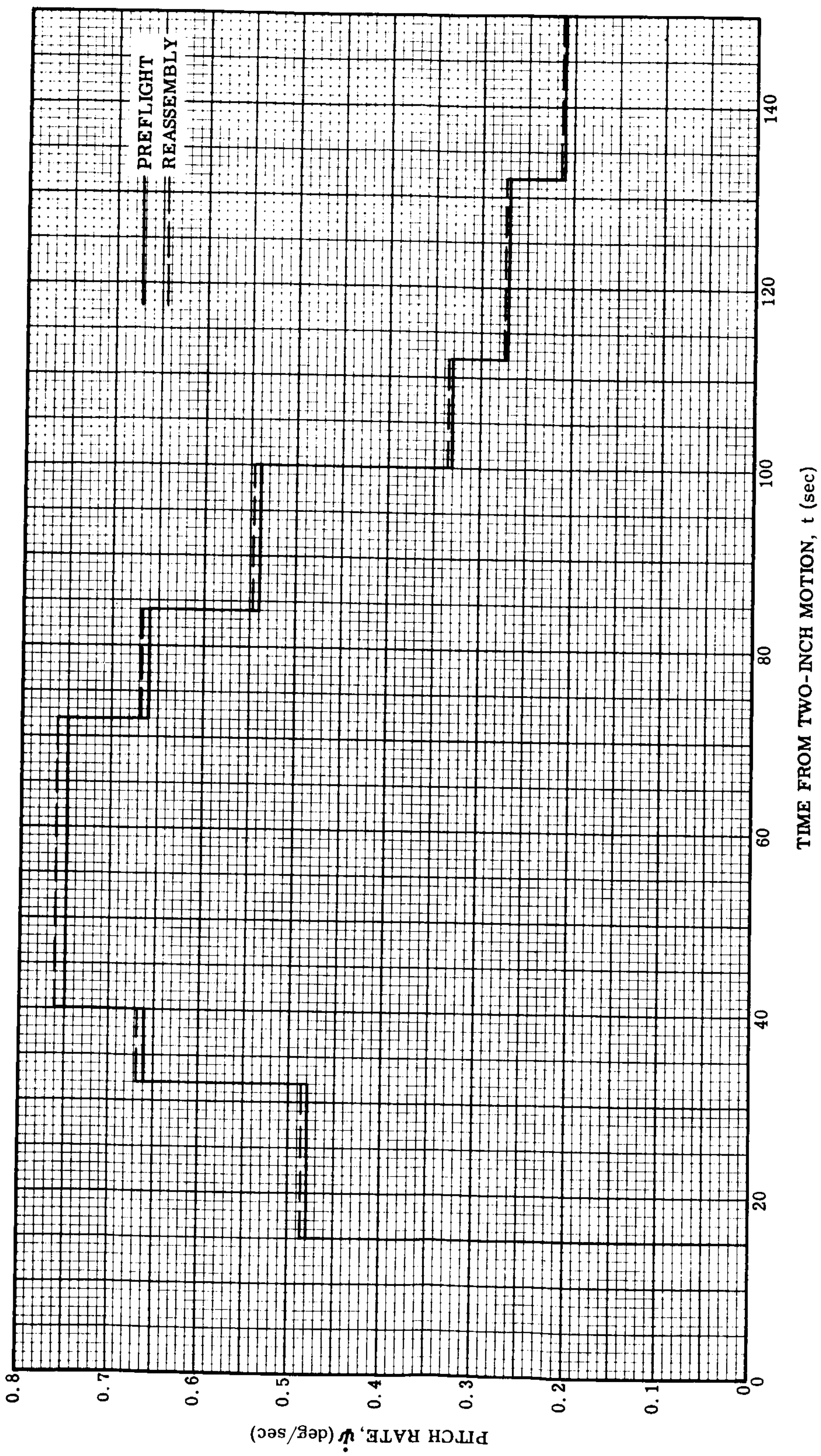

Figure 7-20. Nominal Pitch Rate as a Function of Time, Atlas Stage

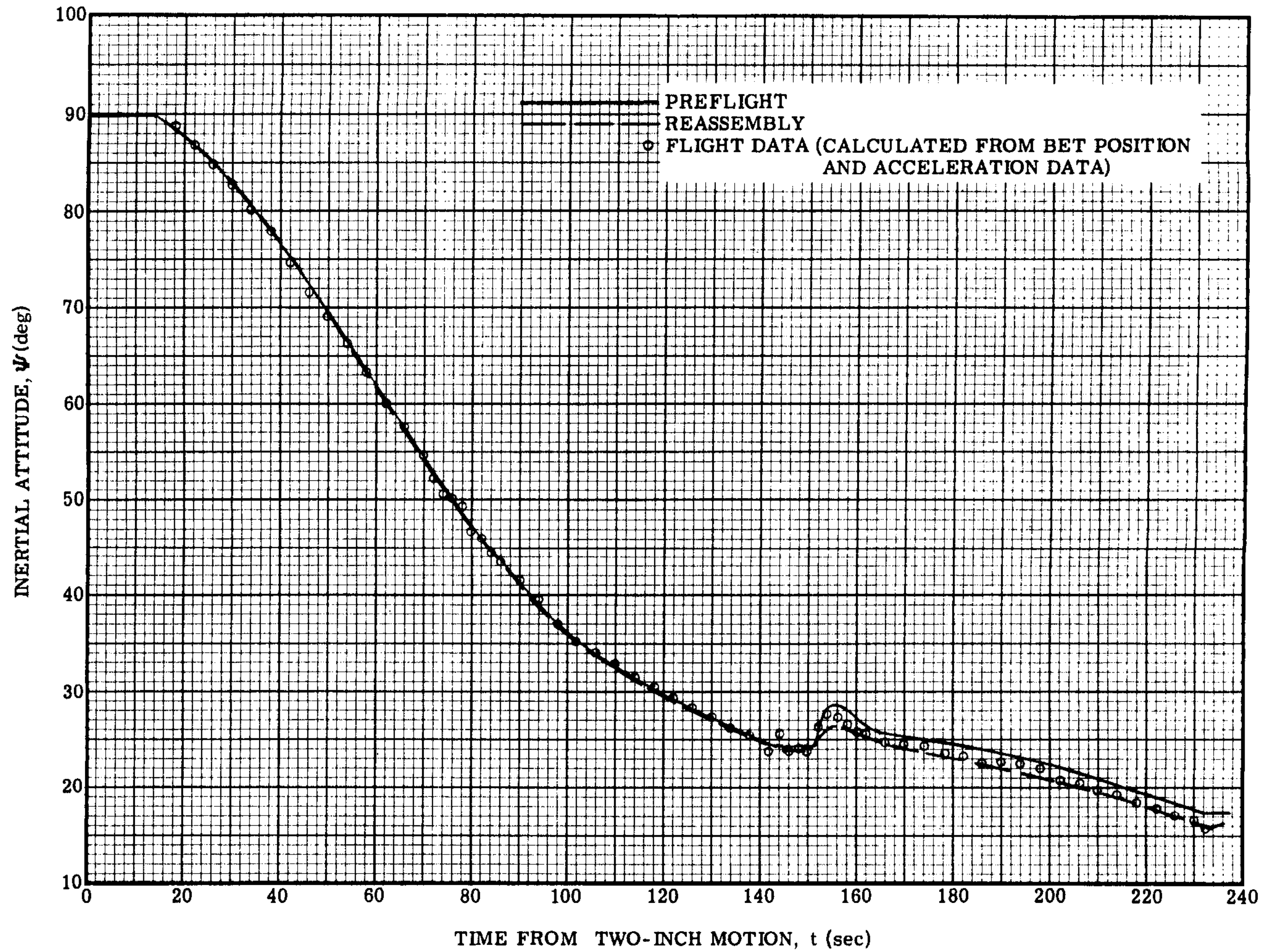

Figure 7-21. Inertial Attitude as a Function of Time, Atlas Stage

and the yaw rate was -0.000249 deg/sec. Minus signs denote nose up for pitch rate and nose right for yaw rate.

Initial errors in inertial attitude were also modified for the sustainer and Centaur phases. The initial error for the sustainer phase was 0.619 degree in pitch and 0.586 degree in yaw. The initial error for the Centaur phase was -2.12 degrees in pitch and -1.414 degrees in yaw. Pitch attitude in the Centaur stage was also modified -0.0666 degree at admit-guidance-perigee-altitude-control time. The resulting pitch attitude history for the sustainer phase together with the booster phase history is presented in Figure 7-21. The Centaur pitch attitude history is presented in Figure 7-22.

7.9 SPACECRAFT SEPARATION AND CENTAUR RETROMANUEVER. Table 7-11 defines the planned and actual orbits of the AC-6 Centaur tank after the retromaneuver. The "actual" tank orbit was determined from the reassembly, which simulated the turnaround and blowdown. The turnaround was simulated by reorienting the Centaur to an attitude vector defined by guidance 560 seconds after booster engine cutoff. The blowdown was determined by simulating flight-derived (by Centaur Thermodynamic Group) blowdown-phase thrust and flow rates.

This is the best known solution available for defining the orbit of the Centaur tank. Of the two C-band radar sites tracking the tank after the retromaneuver, neither Pretoria nor Ascension yielded any data satisfactory for an orbit determination . The guidance data, which evidently are in error (Section 4), are available only up to 1758 seconds from 2-inch motion (96 seconds prior to the end of the retromaneuver). The predicted and flight blowdown thrust and flow rates are compared in Figure 7-23. Separation distance between the spacecraft and tank five hours after spacecraft separation from Centaur was 1966 km based on the reassembly simulation. The preflight predicted separation distance was 2177 km.

7.10 ENVIRONMENT

7.10.1 Atmosphere. Figures 7-24 and 7-25 present ambient pressure and velocity of sound data used for the reassembly trajectory. The atmosphere data were obtained from a Cape Kennedy Rawinsonde run (balloon released approximately 9 minutes after two-inch motion).

7.10.2 Wind Profile. Figure 7-26 presents the wind profile used for the reassembly trajectory. The postflight wind data was obtained from the same Rawinsonde run as that used for the atmospheric data.

7.10.3 Geodetic Data. The geodetic data used for the vehicle AC-6 trajectory reassembly is identical to that used in the preflight simulation. Details of these data are presented in Reference 2 .

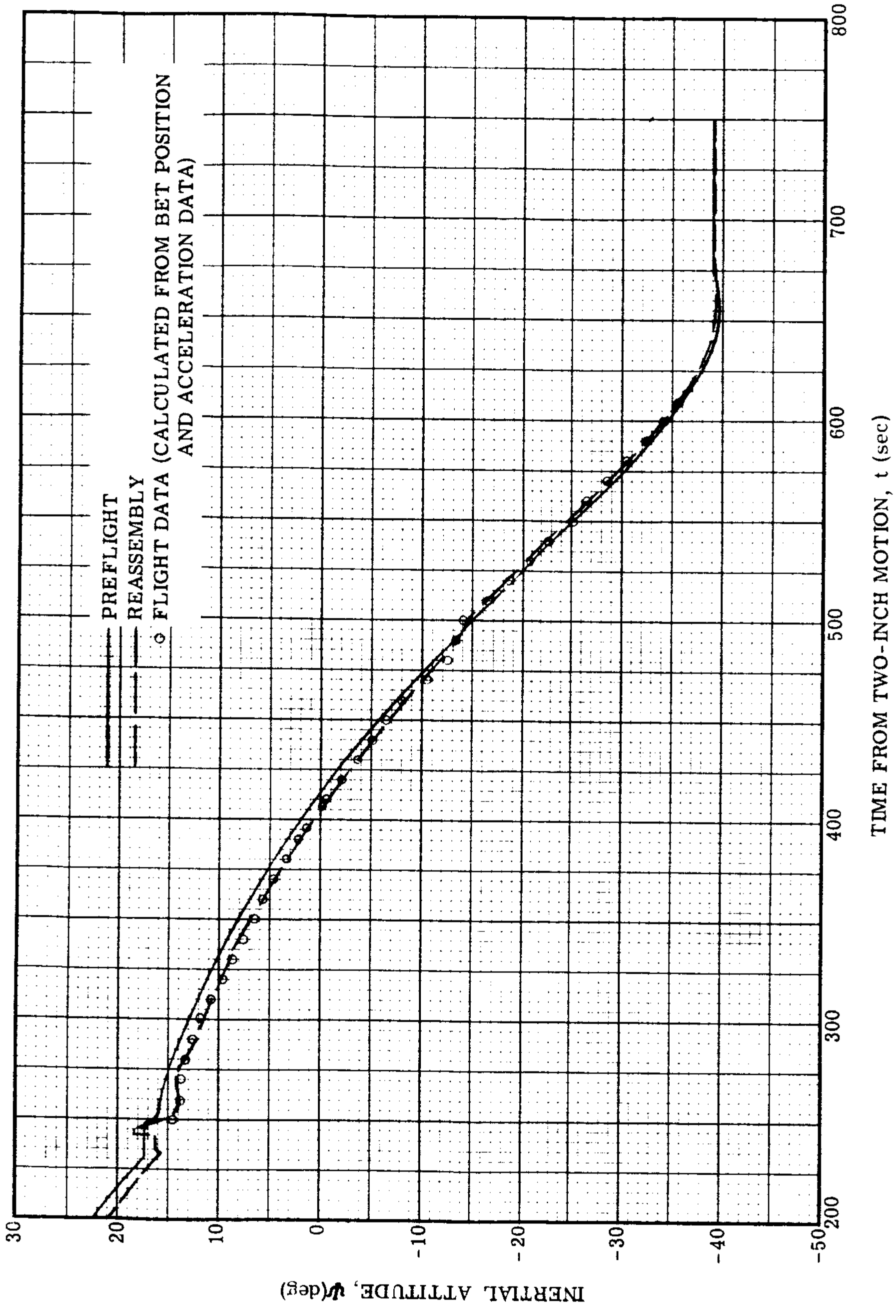

Figure 7-22. Inertial Attitude as a Function of Time, Centaur Stage

Table 7-11. AC-6 Centaur Tank Orbital Parameters

PARAMETER	PREFLIGHT	REASSEMBLY
Radius (ft)	21,473,358	21,473,298
Latitude (deg)	20.840167	20.872337
Longitude (deg)	313.88940	313.89464
Earth Relative Velocity (fps)	34,701.004	34,693.655
Pitch Angle (deg)	0.48466168	0.40891488
Azimuth (deg)	110.86321	110.77196
Semimajor Axis (ft)	1,426,599,100	1,358,208,800
Eccentricity	0.98494887	0.98419073
Inclination (deg)	28.595885	28.559768
C_3 (ft^2/sec^2)	-9,867,200.4	-10,364,047.0
Longitude of Ascending Node (deg)	358.92263	359.10143
Argument of Perigee (deg)	131.04756	131.02614
True Anomaly (deg)	0.93960006	0.79304000

Note: Data epoch is end of Centaur retromaneuver

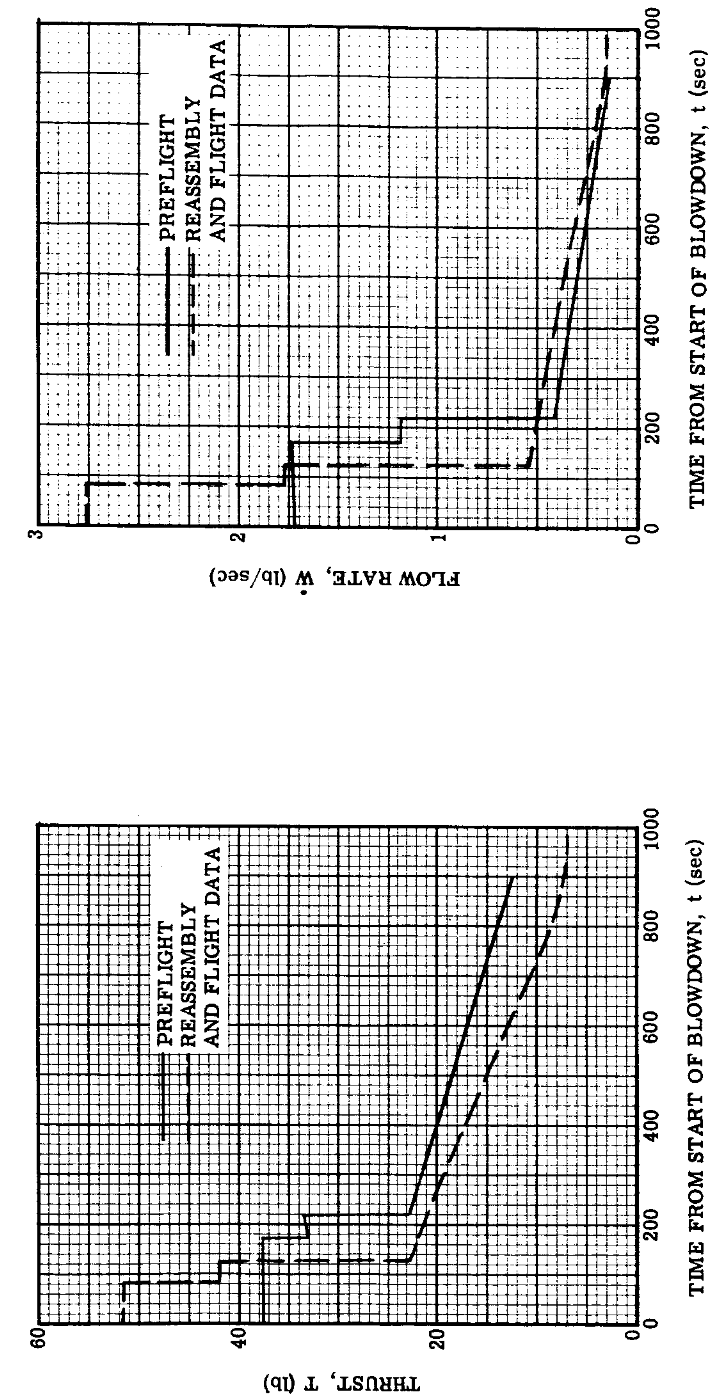

Figure 7-23. Thrust and Flow Rate During Centaur Retromanuever Blowdown Mode

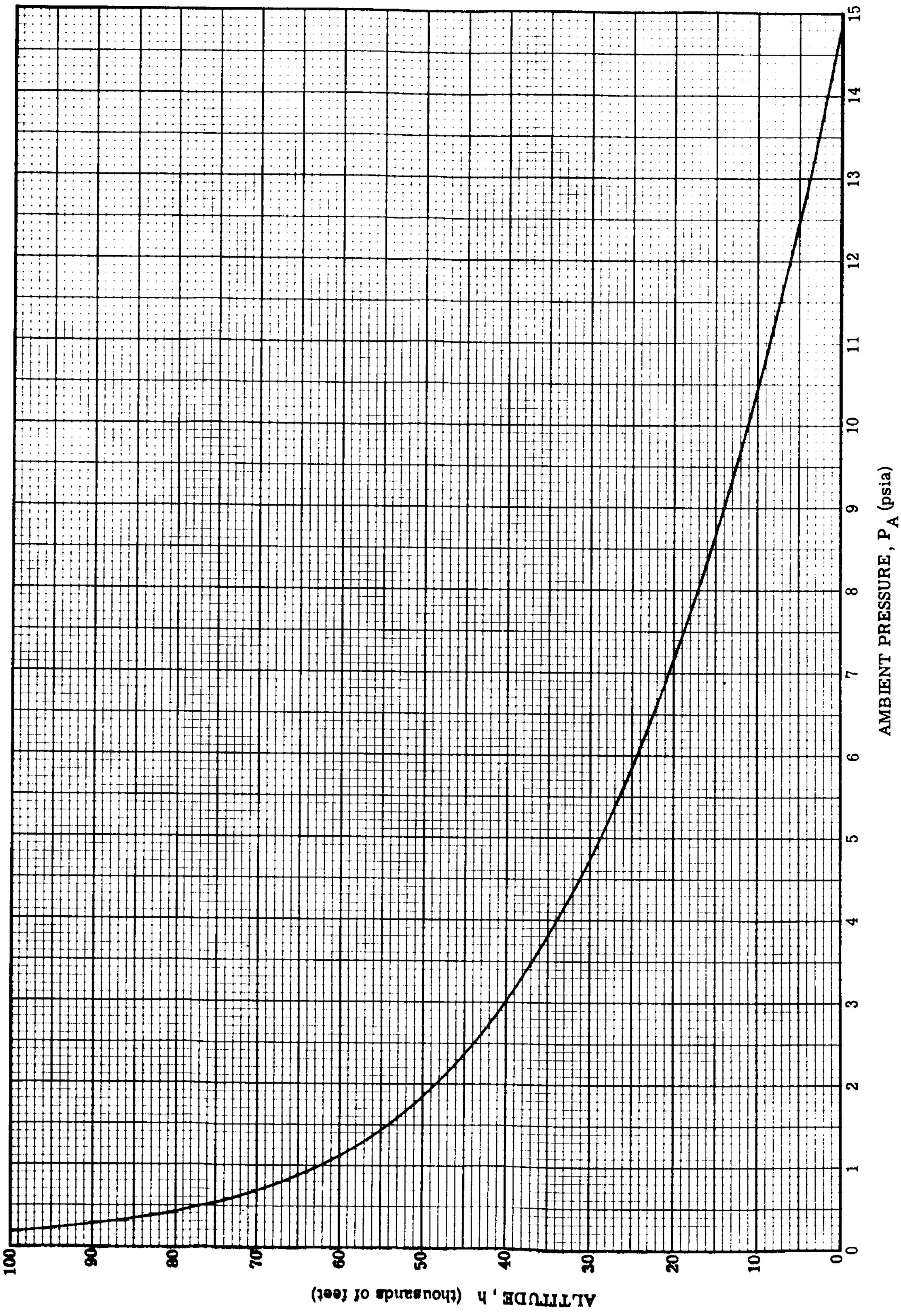

Figure 7-24. Ambient Pressure as a Function of Altitude

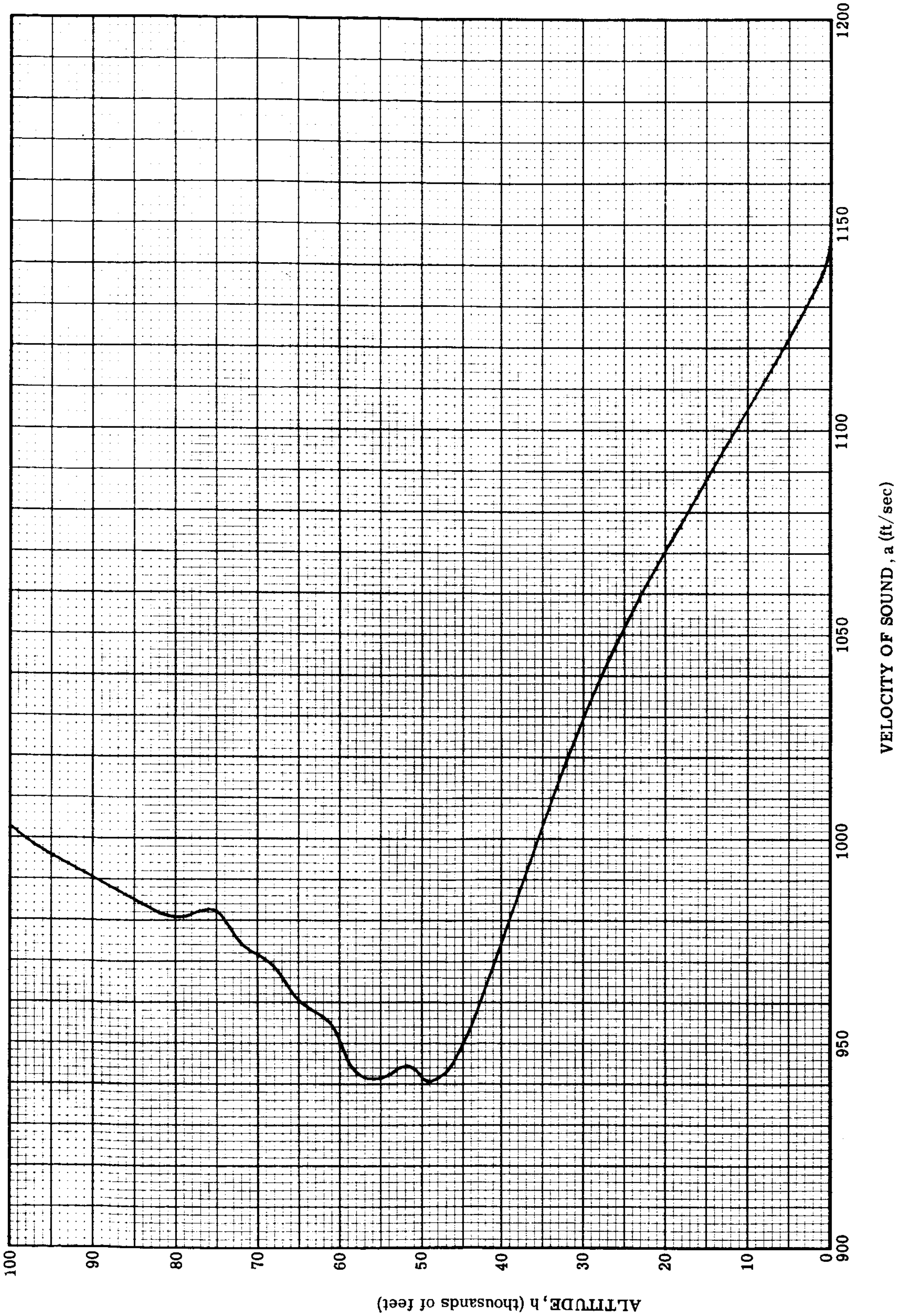

Figure 7-25. Velocity of Sound as a Function of Altitude

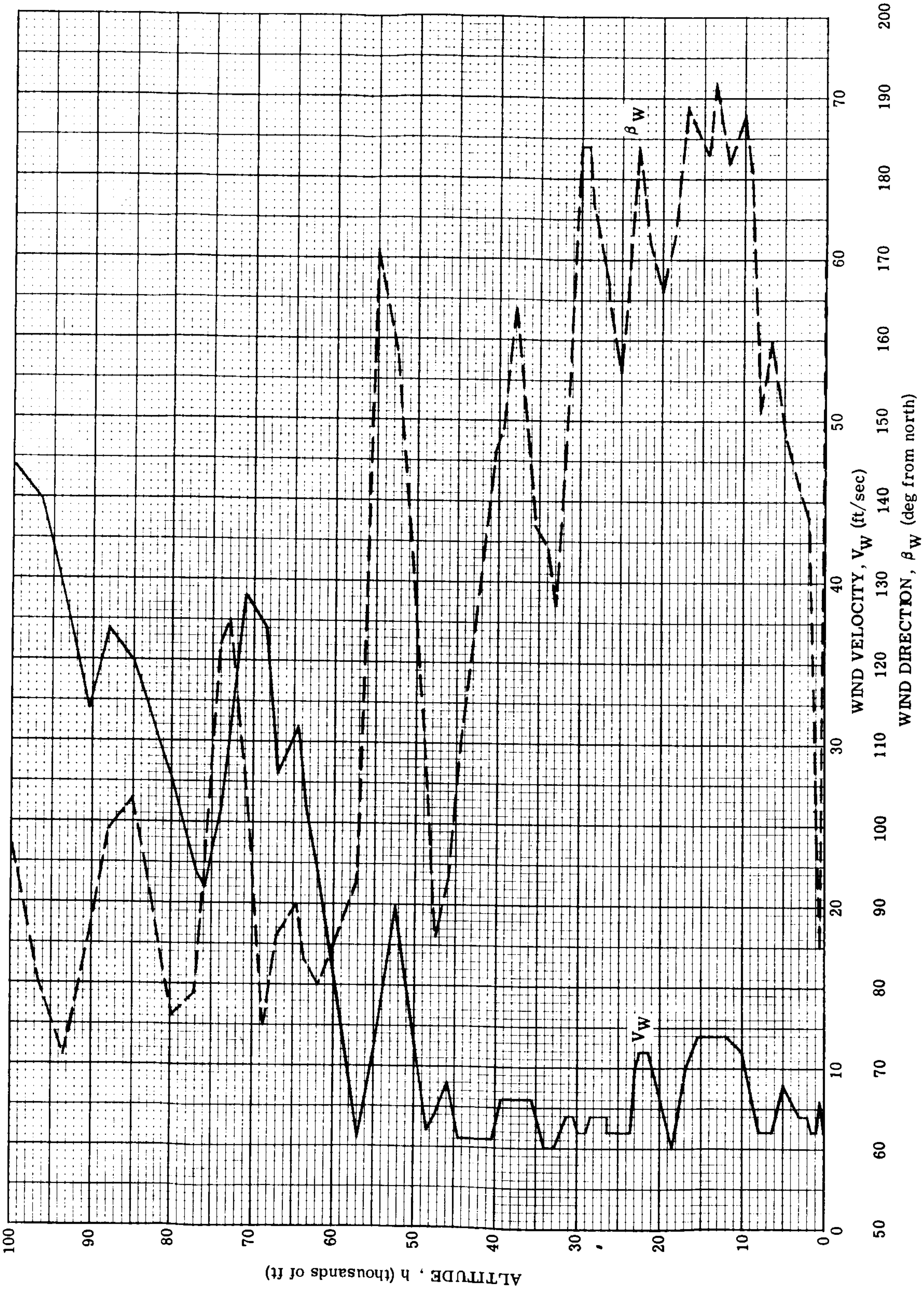

Figure 7-26. Wind Direction and Velocity as a Function of Altitude

SECTION 8

CONCLUSIONS AND RECOMMENDATIONS

On the basis of the vehicle AC-6 reassembly, the following conclusions and recommendations may be made concerning vehicle configuration and system performance during flight.

a. Booster engines thrust was 1106 pounds (0.29 percent) higher than preflight predicted; sustainer thrust was 1449 pounds (2.54 percent) higher than preflight predicted. Booster engines specific impulse was 2.47 seconds (0.85 percent) low, and sustainer-plus-vernier specific impulse was 4.1 seconds (1.91 percent) high compared to the preflight predictions.

b. The use of preflight booster decay and iterating on booster-engine start-of-decay time was found to give unsatisfactory results. Decay characteristics determined using the CM101A acceleration data in conjunction with guidance acceleration data are considered to yield accurate results; in future reassemblies it is proposed that these data be used rather than iterating on stage time.

c. Booster engine cutoff (BECO) occurred 1.473 seconds early. This error is attributed primarily to higher-than-nominal booster and sustainer thrust, lower-than-nominal booster engine I_{sp}, and the unrevised drag model that was used in the preflight simulation.

d. The AC-6 sustainer engine decay (sustainer staging on propellant depletion) was significantly different than the preflight-predicted. The decay occurs in 1.3 seconds compared to 2.9 seconds as predicted in the preflight simulation. The start of the decay occurs at nearly the same propellant weight; thus, the shorter decay time results in propellant residuals of 322 pounds in excess of those predicted. The payload loss thus incurred is 36 pounds. To reduce this cutoff error between predicted and actual, the decay model is being re-evaluated by Rocketdyne.

e. On the basis of (a) through (d), it is concluded that the booster, sustainer, and soft-decay propulsion simulations need improvement. It is recommended that the present efforts to improve the engine model be continued until these and any other associated problems are resolved. Special emphasis should be placed on the soft-decay model since it is obviously in error and causes a payload loss of 36 pounds.

f. The Atlas booster-phase pitch program was close to nominal. The inertial pitch attitude (ψ) was 0.133 degrees lower than the preflight inertial attitude at 140 seconds from liftoff.

g. The revised drag simulation that has been accepted for future simulations made a significant improvement in the position and velocity match during the Atlas phase of flight.

h. The holddown force determined in the reassembly is 38.6 percent of that determined for AC-4. For future reassemblies, it is recommended that flight-measured data such as the guidance-telemetered thrust velocity, CM101A acceleration, and/or theodoilte data be used to calculate holddown force.

i. The Centaur attitude, as determined by the Centaur guidance system, was close to nominal. However, the technique used to simulate the Centaur guidance system in the reassembly does not yield values of specific guidance parameters. These parameters are determined by the Centaur Guidance Analysis Group and are published in Reference 6.

j. The Centaur engine system performance was below nominal. The Centaur main engine thrust was 29,525 pounds (the mean thrust with PU valve at a null position). This is 1.7 percent low. Centaur main engine specific impulse (mean value with PU value at null position) was 1.3 seconds (0.3 percent) low. It is recommended that a method of simulating the engine/PU system be developed and used in the reassembly and the preflight simulation. This would not only improve the reassembly trajectory simulation but would improve the preflight trajectory simulation and would lead to a more realistic comparison of Centaur engine system performance in the future.

k. Centaur main engine burn time was 4.94 seconds longer than predicted. The longer burn time was due to lower-than-predicted main engine thrust.

l. The calculation of I_{sp} by curve fitting thrust acceleration (Reference 14 and 15) gave erroneous answers for both the sustainer and Centaur stages because the assumption of constant thrust and flow rate was violated. It is recommended that in future Atlas/Centaur reassemblies this method should not be used unless the thrust and flow rate can be shown to be constant over the span of the curve fit. Extreme care must be used, since the slightest variation in thrust has a significant effect on the I_{sp} thus calculated.

m. The payload capability, calculated using flight-determined residuals, is 20 pounds greater than the predicted mean payload capability.

n. The blowdown performed satisfactorily and provided a separation distance of 1966 km between the spacecraft and tank 5 hours after spacecraft separation from Centaur. The preflight-predicted separation distance was 2177 km.

o. The best known solution for the Centaur tank orbit was determined from the trajectory reassembly.

SECTION 9

REFERENCES

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16. R. G. Frayer, Atlas Base Drag Study, Convair Division Report GDC-BTD65-089, 1 June 1965 (Unclassified)

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APPENDIX A

PREFLIGHT TRAJECTORY LISTING

The first 5 pages of the IBM trajectory listing present the various input quantities that define the trajectory, computation sequence, weights, propulsion data, etc. The trajectory listing is divided into sections that correspond to contiguous flight phases:

SECTION	TRAJECTORY EVENT	STAGE
	Guidance-to-Inertial	Atlas
1		Atlas
	Liftoff (2-Inch Motion, t = 8 sec)	Atlas
2		Atlas
	Booster jettison	Atlas
3		Atlas
	Atlas sustainer jettison	
4		Centaur
	Main engine ignition	Centaur
5		Centaur
	Centaur main engine cutoff and decay, spacecraft separation, and orbit injection	Centaur

A description of the trajectory parameters is presented in Appendix C.

```
APRIL 1965 ASSEMBLY-A   CPY 1
     CCC = 0 , 0 , 30H COMBO INITIAL CONDITIONS DATA *
     BATA = 25.,
     LATE = 28.307492,
     LONG = 80.541179,
     RO   = .34410000+4, .          + , .30168000+6, .          + , .          + ,
      WEIGH = 303510.,
     CUL  = .10000000+1, .10000000+1, 14076539.+9, .32174000+2, .20925738+8,
     B1   = .20855588+8, .32469000-2, .90000000-5, .41780742-2, .10000000+1,
     V(3) = .          + , .          + , .          + , .10000000+1, .          + ,
     MS(5)= .10000000+1, .          + ,-.10000000+1, .          + , .          + ,
     QTOL = .10000000-3, .60000000+6, .14747657+2, .10080000+3, .12500000+3,
     RSPFL= .          + , .          + , .10000000+1, .          + , .          + ,
     C3   =-.57500000-5, .          - , .          - , .          - , .          - ,
     PLIMO = 230., 800., 10000.,
     PINTO = 5., 10., 100.,
     GTPAD = 0.160947,
     MRGT = 0.160947,
      ID(86)=2.,
    ID(74)=  3.9732,
    ID(74)=  3.7732,
     TLNCH = 8.0 ,
     STORF = 1.,
      PSUBO = 14.7684,
     MRTIM = -.9254,
     MS = .53760561-4, .25076470-4, .99999998,
          -.32171395-4, .99999997,-.25064134-4,
          -.99999998, -.32161781-4, .53766314-4,
     ID(71) = .1-8,
    *
     CCC = 1 , 1 , 30H COMBO SECTION      1       DATA *

                   8 SECOND PRELAUNCH PHASE

    FCODE = 50.,80.,
     DTIME = .5, 0., 13., 0., 1.,
     DTIME = 1.,
     STG1 = 8.,
     GUID = 1.,
    OPT1  =  2.,
     PRNT = -0. ,
    *
     CCC = 1 , 2 , 30H COMBO SECTION      2       DATA *
     FCODE= 02.,04.,05.,87.,28.,62.,12.,14.,15.,16.,17.,18.,71.,
     DTIME= .50000000+0, .          + , .12000000+2, .          , .40000000+1,
     DTIME = 1.,
     GUID=1.0,
     STG1 = .57000000+1, .          + , .          + , .          + , .          + ,
     BR11 = .          + , .          + , .73980000+4, .80800000+0, .78500000+2,
     JETW = 7325.,
     OPT1 = 2., 9., 12.,
     OPT6 = .          + , .78500000+2, .10000000+1, .10000000+1, .10000000+1,
     FCNCP= .10000000+1, .10000000+1, .          + , .          + , .          + ,
     POWR = .10000000+1, .86603000+0, .          + , .30000000+1, .31000000+1,
    CANT  =   .7547,
    DKEN=      3.0       ,
    DKHL=      3.1       ,
    DKBP=      0.11      ,0.25      ,0.35      ,0.70      ,1.70      ,
    DKTH=      0.70      ,0.15      ,0.092     ,0.043     ,0.00      ,
    DKWD=      0.912     ,0.800     ,0.0267    ,0.00      ,0.00      ,
     PRNT = -0. ,
     WNOF = 1.688,
     PRNT = -2.,
    *
     CCC = 1 , 3 , 30H COMBO SECTION      3       DATA *
     FCODE= 02.,04.,87.,28.,62.,12.,14.,15.,16.,17.,18.,71.,
     DTIME= .50000000+0, .          + , .30000000+1, .          + , .20000000+1,
     DTIME = 1.,
    STG1=      877.0     ,STGF=12.0,
     BR11 = .          + , .          + , .          + , .80800000+0, .78500000+2,
      JETW =-36360.,
     OPT1 = 2., 9., 12.,
     OPT6 = .          + , .78500000+2, .40000000+1, .40000000+1, .20000000+1,
     FCNCP= .40000000+1, .20000000+1, .          + , .          + , .          + ,
     POWR = .20000000+1, .64279000+0, .          + , .20000000+1, .15000000+1,
    CANT  =   .7547,
    DKEN=      4.0       ,2.0       ,
    DKBP=      .128      ,.3        ,1.5       ,2.0       ,
    DKTH=      0.1       ,0.0425    ,0.0028    ,0.0026    ,
    DKWD=      0.56      ,0.0       ,0.0       ,0.0       ,
     PRNT = -0. ,
     GUID=1.0,
     TURN=0.0,
    *
    CCC=1,4, *
     FCODE = 2., 4., 87., 75., 15., 16., 18.,71.,
     DTIME= .50000000+0, .          + , .          + , .          + , .90000000+1,
     DTIME = 1.,
     GUID=1.0,
     TURN = 12., FCNSI = 2.,
     STG1=6.5,
     OPT1 = 2., 9., 12.,
     FCNTW = 1.,
     PRNT = -0. ,
    *
     CCC = 1 , 5 , 30H COMBO SECTION      5       DATA *
     FCODE = 2., 4., 87., 75., 15., 16., 18.,71.,
     DTIME = 1.,
     GUID=1.0,
     TURN=0.0,
    STGF=1.,700.,
     OPT1 = 2., 9., 12., 13.,
     FCNTW = 2.,
     DKEN = 3.,
     DKHL = 73.1379,
     DKBP = .075, .15, 72.9779, 73.1379,
    DKWD= 4.4776492, .0, .0, .0,
    DKTH= .65521977, .0, .0, .62401242-01,
     PRNT = -0. ,
     DIG = -1.,
     DT1 = .1, 1.,
     OMT1 = 2., 1000.,
     JETW = 2084.,
     KTB = 1.0008093,
     KWDTB = 1.001008,
    *
     CCC = 3 , 1 , 30H DEPRO INITIAL CONDITIONS DATA *
     PU  =  .20000000+1, .10000000+1, .          + , .          + , .          + ,
     PU=6.,
```

```
WTBHE= 83.    ,WTSHE= 168.  ,PGOAD=30.4   ,PGFAD=58.5   ,LOXCO=0.0
              ,PLOS2=3.13   ,RTR=2.28     ,VAMIN=-5.75  ,VAMAX=17.05  ,
VAMAX =  17.50,
              ,             ,             ,KCAP=1080.0  ,             ,
WDMIN=1835.0  ,WFMIN=883.0  ,DWO=2340.0   ,DWF=943.0    ,             ,
              ,             ,             ,             ,             ,
 PGOAD= 25.5,
 PGTYM= 20.0,
PGFAD =  59.5,
VAMIN = -8.74,
WDSOL =  8.125,
 WTOO= .17250900+6, .75193000+5, .16600000+3, .53000000+2,
  WDAMP = 54647.,
  WTOO = 172286.,
  WTFO = 76103.,
  WTSHE = 169.,
  WTBHE = 86.,
  LOXCO = -0.08,
 RTR=  .3033195,
 DCAPF=  515.,
 DCAPO= 1394.,
 KCAP = 358.85,
 KCAP1 = 411.80,
 KSUBE= -5.20, -5.20,
*
 CCC = 3 , 2 , 30H DEPRO SECTION ONE          DATA *
OUTPF=1.0     ,             ,CSTAF=1.0    ,             ,             ,
FDEN=50.      ,PLF6=12.4    ,PLO8=18.6    ,PLFS=11.8    ,PLOS=15.1    ,
FDEN = 49.68,
              ,WFBC=1.004208,WOBC=1.004323,WFSC=1.003570,WOSC=1.003512,
 GASPF = 2.0,
 WFBC= 1.00419, WOBC= 1.00433, WFSC= 1.00131, WOSC= 1.00126,
  FDEN = 50.38,
*
CCC=3,3, 30H DEPRO SUSTAINER SECTION DATA   *
OUTPF=1.0     ,             ,CSTAF=1.0    ,             ,             ,
FDEN=50.0     ,             ,             ,PLFS=11.8    ,PLOS=3.13    ,
FDEN = 49.68,
              ,             ,             ,WFSC=1.003570,WOSC=1.003512,
 WFSC= 1.00131, WOSC= 1.00126,
  FDEN = 50.38,
 FULIM = 142.0,  OXLIM = 0.0,   WFTOL = 5.0,  WOTOL = 5.0,
*
 CCC =2,30,57H PITCH PROGRAM USED WITH TURN PROGRAM 12 (165K,AZI=108)  *
 TROLT= .20000000+1, .15000000+2, .40000000+4, .          + , .          + ,
 TROLR= .00000000+0,-.37500000+0, .00000000+0, .          + , .          + ,


165 K PITCH PROGRAM  OCTOBER 23, 1963    REVISION 2

 TPITT= .15000000+2, .32000000+2, .40000000+2, .72000000+2, .84000000+2,
        .10000000+3, .11200000+3, .13200000+3, .20000000+3,
 TPITR= .00000000+0, .48000000+0, .66000000+0, .75000000+0, .66000000+0,
        .54000000+0, .33000000+0, .27000000+0, .21000000+0,
*
 CCC=2, 9,58H YZ CG OFF-SETS (CW61-3.1-71) =TLU(TIME-TLNCH) FOR FC 62  *
 TLU = 2 ,
 YWT1 = .000,  15.,  30.,  45.,  60.,  75.,  90., 105., 120., 135.,
        150., 152., 155., 175.,
 YCG1 = 0.50, 0.51, 0.55, 0.60, 0.67, 0.76, 0.88, 1.03, 1.22, 1.48,
        1.88, 1.95, 2.00, 2.00,
  YWT2 = 100., 120., 150., 175., 200., 225., 250., 275., 300., 325.,
  YCG2 = 0.78, 0.85, 0.94, 1.04, 1.16, 1.34, 1.56, 1.90, 2.00, 2.00,
  YWT3 = 200., 225., 250., 275., 300., 325., 350.,
  YCG3 = 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00,
  ZWT1 = .000,  15.,  30.,  45.,  60.,  75.,  90., 105., 120., 135.,
        150., 152., 155., 175.,
  ZCG1 = 0.39, 0.41, 0.45, 0.49, 0.54, 0.59, 0.67, 0.76, 0.91, 1.15,
        1.48, 1.51, 1.56, 1.60,
  ZWT2 = 100., 120., 150., 175., 200., 225., 250., 275., 300., 325.,
  ZCG2 = 1.14, 1.25, 1.40, 1.59, 1.81, 2.10, 2.40, 2.40, 2.40, 2.40,
  ZWT3 = 200., 225., 250., 275., 300., 325., 350.,
  ZCG3 = 1.69, 1.84, 1.99, 2.14, 2.29, 2.44, 2.59,
*
 CCC=2,10,58H  X CG OFF-SETS (CW61-3.1-71) =TLU(TIME-TLNCH) FOR FC 28  *
 TLU = 2 ,
 XCGW1= .000,  15.,  30.,  45.,  60.,  75.,  90., 105., 120., 135.,
        150., 152., 155., 175.,
 XCGT1= .532, .538, .543, .549, .553, .554, .553, .549, .543, .525,
        .493, .453, .453, .453,
 XCGW2= 100., 120., 150., 175., 200., 225., 250., 275., 300., 325.,
 XCGT2= .480, .468, .456, .440, .417, .384, .336, .260, .240, .240,
 XCGW3= 200., 225., 250., 275., 300., 325., 350.,
 XCGT3= .321, .327, .333, .340, .347, .353, .359,
*
CCC=3,4, 57H  165K BOOST 57K SUST 1000 VERN                                 *
TAFX=       375804.0 ,393.74    ,897.00    ,
            57000.0  ,84.04     ,190.78    ,
            2000.0   ,0.0       ,0.0       ,
INFCO=      -0.0725  , 0.5270   ,-0.0017   , 0.0349   , 0.0      , , , , , , ,
             0.9617  ,-0.5002   , 0.0558   ,-0.0205   , 0.0      , , , , , , ,
            -0.6797  , 1.1387   ,-0.0354   , 0.0802   , 0.0      , , , , , , ,
             0.5230  , 0.0529   , 0.0617   , 0.0000   ,-0.4205   , , , , , , ,
             0.6463  ,-0.1533   , 0.0232   , 0.0000   , 0.0046   , , , , , , ,
             0.2726  , 0.1010   , 0.0479   , 0.0000   , 0.0176   , , , , , , ,
             0.1381  , 0.3352   , 0.0055   , 0.0000   ,-0.1540   , , , , , , ,
             0.0     , 0.0      , 0.0      , 0.0      , 0.0      , , , , , , ,
             0.0     , 0.0      , 0.0      , 0.0      , 0.0      , , , , , , ,
NUMX=       50.45    ,71.38     ,73.0      ,50.0      ,14.696    , , , , , , ,
            50.45    ,71.38     ,77.0      ,53.0      ,14.696    , , , , , , ,
BXTEN=      14,
BXMR=        1.96    ,2.00      ,2.05      ,2.10      ,2.15      ,
             2.20    ,2.28      ,2.30      ,2.35      ,2.40      ,
             2.45    ,2.50      ,2.55      ,2.58      ,
BXDT=       -1570.0  ,-1370.0   ,-866.0    ,-515.0    ,-276.0    ,
             -117.0  ,0.0       ,-12.0     ,-42.0     ,-105.0    ,
            -187.0   ,-293.0    ,-416.0    ,-499.0    ,
BXDWF  =    0.9490   ,0.8060    ,0.5230    ,0.3120    ,0.1670    ,
            0.0708   ,0.0       ,0.0071    ,0.0255    ,0.0636    ,
            0.1132   ,0.1770    ,0.2520    ,0.3020    ,
BXDWD=      2.2350   ,1.9000    ,1.2320    ,0.7330    ,0.3930    ,
            0.1670   ,0.0       ,0.0167    ,0.0599    ,0.1500    ,
            0.2660   ,0.4160    ,0.5930    ,0.7100    ,
SXTEN=      16,
SXMR=       1.90     ,1.95      ,2.00      ,2.05      ,2.10      ,
            2.15     ,2.20      ,2.27      ,2.30      ,2.35      ,
            2.40     ,2.45      ,2.50      ,2.55      ,2.60      ,
            2.65     ,
SXDT=       -327.1   ,-241.2    ,-171.8    ,-117.6    ,-77.7     ,
            -43.0    ,-16.5     , 11.6     , 18.2     , 13.2     ,
```

```
          0.0      ,-24.8     ,-49.6     ,-85.9     ,-128.9    ,
         -175.1    ,
SXDWF=    0.1434   , 0.1057   , 0.0753   , 0.0516   , 0.0340   ,
          0.0188   , 0.0072   ,-0.0051   ,-0.0080   ,-0.0058   ,
          0.0000   , 0.0108   , 0.0217   , 0.0376   , 0.0565   ,
          0.0767   ,
SXDWD=    1.377    , 1.015    , 0.723    , 0.495    , 0.327    ,
          0.181    , 0.069    ,-0.049    ,-0.076    ,-0.056    ,
          0.000    , 0.104    , 0.209    , 0.362    , 0.542    ,
          0.737    ,
COFPA(10)=15.0     ,
KOFPA=   -3117.0   ,0.208     ,0.517     ,
DECST(4)=.5843145,
DECST(5)=.7135,
DECST(23)=0.002875,
DECST(76)=147.0,
 DPGT = 0.0, 500.,
 DPGO = -5.0, -5.0,
 DECST = .95,
DECST(23)=.002625,
DECST(76)=150.,
DPGO  = -4.30, -4.30,
  DECST(4) = 0.61,
  DECST(5) = 0.70,
*
CCC=3,5,54H CENTAUR FLIGHT TANK TABLE WITH PROGRAM PRESSURES
 OTLUT=  0.0   ,  5.0 ,     15.0,      30.0,      35.0,
      40.0,      45.0,      50.0,      55.0,      60.0,      65.0,
      70.0,      75.0,      80.0,      85.0,      90.0,
      95.0,      100.0,     105.0,     110.0,     115.0,     120.0,
      124.0,     150.0,     320.0,
 OTLUD= 69.320,  69.315,    69.295,    69.235,    69.210,    69.185,
      69.155,    69.130,    69.095,    69.060,    69.020,    68.980,
      68.935,    68.890,    68.840,    68.785,    68.730,    68.670,
      68.600,    68.535,    68.460,    68.385,    68.300,
      68.300,    68.745,
OXLCO=    0.0      ,
VPFOX=    526.15   ,-7.222222,0.0      ,0.0      ,
          0.0      ,0.0       ,0.0      ,0.0      ,
VOLOS=
       .00,        .02,        .16,        .28,        .44,
       .52,        .63,        .77,        .86,        .99,
      1.96,      13.10,      13.58,      14.31,      15.96,
     16.69,      17.52,      18.46,      19.52,      20.70,
     22.00,      25.03,      26.77,      28.66,      30.71,
     32.93,      35.32,      37.90,      43.64,      50.20,
     57.63,      65.99,      75.33,      85.71,      97.18,
    109.77,     122.88,     136.00,     149.11,     162.22,
    175.33,     188.43,     201.54,     214.65,     227.76,
    240.86,     247.42,     280.45,     313.95,     346.85,
    379.69,     412.51,     445.38,     478.25,     511.11,
    543.97,     576.81,     609.65,     642.52,     675.38,
    708.25,     741.11,     773.95,     806.80,     839.66,
    872.53,     905.42,     938.30,     971.17,    1004.06,
   1036.94,    1069.83,    1102.72,    1135.60,    1168.47,
   1201.35,    1234.23,    1267.12,    1300.05,    1332.98,
   1365.90,    1398.83,    1431.74,    1464.64,    1497.54,
   1530.44,    1563.34,    1596.25,    1629.17,    1662.08,
   1694.99,    1727.90,    1760.83,    1793.77,    1826.71,
   1859.65,    1892.57,    1925.52,    1958.47,    1991.43,
   2024.38,    2057.32,    2070.50,    2083.68,    2096.86,
   2110.03,    2123.21,    2136.39,    2149.54,    2162.68,
   2175.82,    2188.96,    2202.09,    2215.23,    2228.36,
   2241.49,    2254.63,    2267.76,    2280.89,    2294.02,
   2307.16,    2320.29,    2333.41,    2346.54,    2359.67,
   2372.79,    2385.89,    2398.88,    2411.81,    2424.61,
   2437.24,    2449.63,    2461.75,    2473.52,    2484.90,
   2495.82,    2506.24,    2516.11,    2525.35,    2533.93,
   2541.78,    2548.85,    2555.09,    2560.44,    2564.84,
   2568.25,    2570.60,    2571.36,    2571.84,    2572.03,
 VOLFS=
       .00,        .41,        .82,       1.22,       1.79,
      2.55,       3.54,       4.78,       6.31,      10.32,
     12.87,      15.82,      17.46,      19.20,      23.04,
     27.35,      32.19,      37.57,      43.54,      50.11,
     57.32,      65.20,      73.77,      82.96,      92.74,
    103.02,     113.70,     124.74,     136.14,     147.87,
    159.90,     172.22,     184.80,     197.62,     210.63,
    223.71,     236.81,     249.98,     282.94,     315.92,
    348.92,     381.93,     414.93,     447.94,     480.94,
    513.95,     546.96,     579.98,     613.00,     646.02,
    679.04,     712.06,     745.09,     778.12,     811.16,
    844.19,     877.23,     910.26,     943.30,     976.35,
   1009.40,    1042.45,    1075.51,    1108.56,    1141.62,
   1174.67,    1207.73,    1240.79,    1273.84,    1280.45,
   1293.68,    1306.90,    1320.12,    1333.34,    1346.57,
   1359.79,    1373.01,    1386.16,    1399.21,    1412.18,
   1425.01,    1437.65,    1450.05,    1462.14,    1473.87,
   1485.20,    1496.05,    1506.39,    1516.16,    1525.29,
   1533.74,    1541.45,    1548.37,    1554.44,    1559.61,
   1563.82,    1567.02,    1568.23,    1569.16,    1569.81,
HEDO=
   1208.40,    1206.70,    1197.60,    1194.90,    1193.40,
   1188.10,    1180.90,    1170.90,    1165.20,    1156.60,
   1142.00,     953.33,     951.33,     949.33,     946.33,
    945.33,     944.33,     943.33,     942.33,     941.33,
    940.33,     938.33,     937.33,     936.33,     935.33,
    934.33,     933.33,     932.33,     930.33,     928.33,
    926.33,     924.33,     922.33,     920.33,     918.33,
    916.33,     914.33,     912.33,     910.33,     908.33,
    906.33,     904.33,     902.33,     900.33,     898.33,
    896.33,     895.33,     890.33,     885.33,     880.33,
    875.33,     870.33,     865.33,     860.33,     855.33,
    850.33,     845.33,     840.33,     835.33,     830.33,
    825.33,     820.33,     815.33,     810.33,     805.33,
    800.33,     795.33,     790.33,     785.33,     780.33,
    775.33,     770.33,     765.33,     760.33,     755.33,
    750.33,     745.33,     740.33,     735.33,     730.33,
    725.33,     720.33,     715.33,     710.33,     705.33,
    700.33,     695.33,     690.33,     685.33,     680.33,
    675.33,     670.33,     665.33,     660.33,     655.33,
    650.33,     645.33,     640.33,     635.33,     630.33,
    625.33,     620.33,     618.33,     616.33,     614.33,
    612.33,     610.33,     608.33,     606.33,     604.33,
    602.33,     600.33,     598.33,     596.33,     594.33,
    592.33,     590.33,     588.33,     586.33,     584.33,
    582.33,     580.33,     578.33,     576.33,     574.33,
    572.33,     570.33,     568.33,     556.33,     564.33,
    562.33,     560.33,     558.33,     556.33,     554.33,
    552.33,     550.33,     548.33,     546.33,     544.33,
```

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    542.33,     540.33,     538.33,     536.33,     534.33,
    532.33,     530.33,     529.33,     528.33,     527.33,
 HEDF=
   1226.40,    1204.55,    1200.55,    1198.55,    1196.55,
   1194.55,    1192.55,    1190.55,    1188.55,    1184.55,
   1182.55,    1180.55,    1179.55,    1178.55,    1176.55,
   1174.55,    1172.55,    1170.55,    1168.55,    1166.55,
   1164.55,    1162.55,    1160.55,    1158.55,    1156.55,
   1154.55,    1152.55,    1150.55,    1148.55,    1146.55,
   1144.55,    1142.55,    1140.55,    1138.55,    1136.55,
   1134.55,    1132.55,    1130.55,    1125.55,    1120.55,
   1115.55,    1110.55,    1105.55,    1100.55,    1095.55,
   1090.55,    1085.55,    1080.55,    1075.55,    1070.55,
   1065.55,    1060.55,    1055.55,    1050.55,    1045.55,
   1040.55,    1035.55,    1030.55,    1025.55,    1020.55,
   1015.55,    1010.55,    1005.55,    1000.55,     995.55,
    990.55,     985.55,     980.55,     975.55,     974.55,
    972.55,     970.55,     968.55,     966.55,     964.55,
    962.55,     960.55,     958.55,     956.55,     954.55,
    952.55,     950.55,     948.55,     946.55,     944.55,
    942.55,     940.55,     938.55,     936.55,     934.55,
    932.55,     930.55,     928.55,     926.55,     924.55,
    922.55,     920.55,     919.55,     918.55,     917.55,
*
CCC=3,6, 30H   P.U. TABLES                                *
TVANG=    -10.0     ,-7.0     ,-6.0     ,-5.0     ,-4.0     ,
          -3.0     ,-2.0     ,-1.0     , 0.0     , 1.0     ,
           2.0     , 3.0     , 4.0     , 5.0     , 6.0     ,
           7.0     , 8.0     ,10.0     ,12.0     ,14.0     ,
          16.0     ,18.0     ,
TDFDS=    -8.5     ,-5.7     ,-4.7     ,-3.8     ,-3.0     ,
          -2.3     ,-1.5     ,-1.0     , 0.0     , 0.5     ,
           1.0     , 1.7     , 2.2     , 2.7     , 3.2     ,
           3.8     , 4.3     , 5.3     , 6.3     , 7.4     ,
           8.7     ,10.0     ,
TDODS=    11.5     , 6.6     , 5.4     , 4.3     , 3.7     ,
           2.3     , 1.4     , 0.7     , 0.0     ,-0.7     ,
          -1.3     ,-1.9     ,-2.5     ,-3.0     ,-3.6     ,
          -4.2     ,-4.7     ,-5.8     ,-6.9     ,-8.0     ,
          -9.0     ,-10.0    ,
TDTHS=    330.0    ,250.0    ,220.0    ,193.0    ,155.0    ,
          120.0    ,80.0     ,40.0     ,0.0      ,-40.0    ,
          -80.0    ,-125.0   ,-170.0   ,-215.0   ,-260.0   ,
          -315.0   ,-365.0   ,-480.0   ,-605.0   ,-750.0   ,
          -905.0   ,-1110.0  ,
 UGFPS=  -9.000,    .000,    .130,    .277,    .422,    .600,    .876,
          1.101,   1.316,   2.124,   2.994,   3.878,   5.302,   7.217,
 CAPFS=    207.,    207.,    583.,    98?.,   1390.,   2071.,   3528.,
          4796.,   6097.,  11168.,  16512.,  21995.,  30473.,  41200.,
 UGOPS=  -9.000,    .154,    .253,    .500,    .724,    .999,   1.523,
          2.011,   2.499,   4.355,   6.358,   8.390,  11.470,  15.555,
 CAPOS=    578.,    578.,   1103.,   2056.,   2971.,   4748.,   7858.,
         10665.,  13718.,  25142.,  37540.,  50187.,  69267.,  93638.,
*
CCC= 23, 43H CENTAUR       SOFT DECAY TABLES AND DATA      *
DTX= 0.9,0.1,0.6,0.25,0.55,0.6,0.5,0.25,0.15,0.7,
XTS=
1.00130,  1.000,     0.9989,   1.0000,   1.000,    1.003,    1.002,
1.00000,  1.001,     0.9952,   1.0000,   1.000,    1.003,    1.001,
0.98591,  1.057,     0.9410,   0.9966,   1.015,    0.995,    1.009,
0.97512,  1.072,     0.9165,   0.9898,   1.009,    0.984,    1.002,
0.91344,  1.035,     0.8464,   0.9283,   0.971,    0.919,    0.938,
0.85328,  1.022,     0.7730,   0.8771,   0.942,    0.871,    0.886,
0.80074,  1.010,     0.7097,   0.8362,   0.915,    0.827,    0.836,
0.76355,  1.003,     0.6709,   0.8020,   0.898,    0.797,    0.804,
0.73436,  0.999,     0.6401,   0.7850,   0.880,    0.774,    0.775,
0.53877,  0.985,     0.4280,   0.6280,   0.781,    0.639,    0.636,
DTPP=0.07,0.13,0.20,0.04,1.56,
DKTS=
0.97703,  0.957,     0.9556,   0.9912,   0.893,    0.989,    0.896,
0.09717,  0.140,     0.5546,   0.1814,   0.836,    0.203,    0.072,
0.05919,  0.070,     0.3276,   0.2212,   0.676,    0.226,    0.048,
0.01060,  0.070,     0.0000,   0.5752,   0.375,    0.719,    0.000,
0.00000,  0.000,     0.0000,   0.2389,   0.502,    0.268,    0.000,
SOFTDK=1.,
PFMCO =650.,      PFMTOL=1.,
WFTCO =142.,         WFTOL = 5.,
PFMREF=813.,
*
 CCC = 2,4, 40H AC-6 11 AUG 65 1440Z HRS                   *
    METERS = 1.,
 WALTA =
       0.,       500.,      1000.,      1500.,      2000.,      3000.,      5000.,
    6500.,      8000.,      9000.,     10000.,     12000.,     13500.,     15500.,
   17000.,     18500.,     20000.,     21500.,     22500.,     23000.,     24500.,
   25000.,     26500.,     26500.,     28500.,     29000.,     30000.,     30500.,
   31500.,     33000.,     34000.,     35500.,     38000.,     39500.,     40500.,
   44500.,     46000.,     47500.,     48500.,     52500.,     55000.,     57000.,
   62000.,     63500.,     64500.,     67000.,     68500.,     71000.,     73000.,
   74000.,     76000.,     77000.,     80000.,     85000.,     88000.,     90500.,
   93500.,     96500.,    100000.,    500000.,
 WSPD =
       6.,         8.,         6.,         6.,         7.,         7.,         9.,
       6.,         6.,         8.,        11.,        12.,        12.,        12.,
      10.,         5.,         8.,        11.,        11.,        10.,         6.,
       6.,         6.,         7.,         7.,         6.,         6.,         7.,
       7.,         5.,         5.,         8.,         8.,         8.,        5.5,
      5.5,         9.,         7.,         6.,        20.,        11.,        5.5,
      22.,        26.,        31.,        28.,        37.,        39.,        30.,
      26.,        21.,        22.,        28.,        35.,        37.,        32.,
      39.,        45.,        47.,
 WANG =
     170.,        85.,        98.,       121.,       138.,       141.,       149.,
     160.,       151.,       180.,       168.,       182.,       192.,       183.,
     189.,       173.,       166.,       172.,       181.,       184.,       163.,
     156.,       165.,       167.,       177.,       184.,       184.,       175.,
     149.,       127.,       134.,       137.,       164.,       149.,       146.,
     110.,        93.,        86.,       105.,       158.,       171.,        93.,
      80.,        83.,        90.,        86.,        75.,       106.,       125.,
     122.,        94.,        79.,        76.,       103.,        99.,        85.,
      71.,        80.,        97.,       100.,
*
CCC=27*
 FVB1 = 0.0,
 DSPALT = 0., 100000000.,
 CSAM1=  0.00,  0.20,  0.40,  0.65,  0.75,  0.80,  0.85,  0.90,  0.95,
         1.00,  1.05,  1.10,  1.15,  1.20,  1.40,  1.60,  1.75,  2.00,
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         2.50,  3.00,  4.00,  5.00,  6.00,  8.00, 10.00,
  CSAC1= 0.310, 0.305, 0.298, 0.300, 0.319, 0.333, 0.408, 0.483, 0.603,
         0.722, 0.827, 0.883, 0.891, 0.882, 0.828, 0.755, 0.700, 0.616,
         0.497, 0.402, 0.281, 0.204, 0.132,-0.107,-0.496,
  CNVM1=   0.00,    0.20,    0.50,    0.70,    0.80,    0.90,    0.95,    1.00,
           1.05,    1.15,    1.25,    1.50,    1.75,    2.00,    2.25,    2.50,
           3.50,    5.00,    7.00,   10.00,
PALFA1=     0. ,     2.0,     4.0,     6.0,     8.0,    60.0,    90.0,
MALFA1=    -0. ,    -2.0,    -4.0,    -6.0,    -8.0,   -60.0,   -90.0,
   CNJ1= 0.0045, 0.0045, 0.0045, 0.0045, 0.0050, 0.0065, 0.0060, 0.0053,
         0.0050, 0.0075, 0.0090, 0.0063, 0.0048, 0.0054, 0.0059, 0.0061,
         0.0064, 0.0050, 0.0036, 0.0030,
  DCME1=-0.0035,-0.0035,-0.0037,-0.0040,-0.0045,-0.0047,-0.0047,-0.0047,
        -0.0047,-0.0047,-0.0048,-0.0054,-0.0107,-0.0072,-0.0032,-0.0035,
        -0.0043,-0.0030,-0.0022,-0.0020,
   CYD1= 0.0080, 0.0080, 0.0080, 0.0080, 0.0080, 0.0084, 0.0096, 0.0123,
         0.0150, 0.0192, 0.0204, 0.0189, 0.0172, 0.0157, 0.0142, 0.0135,
         0.0103, 0.0070, 0.0048, 0.0040,
  DCMZ1=-0.0024,-0.0024,-0.0023,-0.0023,-0.0023,-0.0008,-0.0010,-0.0030,
        -0.0043,-0.0061,-0.0071,-0.0075, 0.0005,-0.0025,-0.0069,-0.0052,
         0.0010, 0.0022, 0.0020, 0.0020,
 PCNTBI= 0.0556, 0.0556, 0.0557, 0.0564, 0.0586, 0.0650, 0.0692, 0.0743,
         0.0731, 0.0677, 0.0672, 0.0690, 0.0733, 0.0732, 0.0720, 0.0736,
         0.0789, 0.0799, 0.0778, 0.0712,
         0.0556, 0.0556, 0.0557, 0.0566, 0.0593, 0.0660, 0.0708, 0.0754,
         0.0741, 0.0698, 0.0690, 0.0705, 0.0741, 0.0741, 0.0730, 0.0744,
         0.0798, 0.0810, 0.0789, 0.0722,
         0.0556, 0.0556, 0.0559, 0.0604, 0.0641, 0.0700, 0.0767, 0.0793,
         0.0779, 0.0751, 0.0737, 0.0742, 0.0777, 0.0783, 0.0781, 0.0792,
         0.0838, 0.0858, 0.0837, 0.0769,
         0.0556, 0.0556, 0.0580, 0.0654, 0.0701, 0.0755, 0.0807, 0.0842,
         0.0833, 0.0811, 0.0800, 0.0806, 0.0838, 0.0854, 0.0855, 0.0862,
         0.0922, 0.0938, 0.0915, 0.0850,
         0.0556, 0.0556, 0.0622, 0.0711, 0.0766, 0.0810, 0.0890, 0.0902,
         0.0890, 0.0873, 0.0863, 0.0885, 0.0938, 0.0960, 0.0968, 0.0990,
         0.1070, 0.1096, 0.1073, 0.1005,
         0.1294, 0.1294, 0.1432, 0.1812, 0.2125, 0.2450, 0.2640, 0.2815,
         0.2935, 0.2950, 0.2760, 0.2570, 0.2505, 0.2450, 0.2420, 0.2365,
         0.2300, 0.2260, 0.2220, 0.2180,
         0.1150, 0.1150, 0.1272, 0.1610, 0.1887, 0.2180, 0.2345, 0.2500,
         0.2605, 0.2615, 0.2455, 0.2285, 0.2225, 0.2180, 0.2145, 0.2100,
         0.2025, 0.2010, 0.2000, 0.1993,
 PFNTBI= 0.1996, 0.1996, 0.1996, 0.2250, 0.2500, 0.2505, 0.2483, 0.2542,
         0.2570, 0.2013, 0.1757, 0.1900, 0.1858, 0.1874, 0.1963, 0.2022,
         0.2318, 0.2768, 0.2879, 0.2890,
         0.1996, 0.1996, 0.1996, 0.2367, 0.2642, 0.2635, 0.2619, 0.2721,
         0.2711, 0.2458, 0.2112, 0.2055, 0.1966, 0.1899, 0.1914, 0.1958,
         0.2244, 0.2636, 0.2752, 0.2751,
         0.1996, 0.1996, 0.2055, 0.2466, 0.2600, 0.2710, 0.2772, 0.2859,
         0.2834, 0.2615, 0.2424, 0.2330, 0.2251, 0.2164, 0.2101, 0.2121,
         0.2358, 0.2715, 0.2831, 0.2831,
         0.1996, 0.1996, 0.2251, 0.2653, 0.2742, 0.2877, 0.2905, 0.2914,
         0.2900, 0.2675, 0.2547, 0.2488, 0.2443, 0.2376, 0.2298, 0.2284,
         0.2561, 0.2954, 0.3060, 0.3070,
         0.1996, 0.1996, 0.2409, 0.2762, 0.2877, 0.2957, 0.2981, 0.2975,
         0.2940, 0.2735, 0.2622, 0.2651, 0.2646, 0.2584, 0.2565, 0.2591,
         0.2938, 0.3312, 0.3428, 0.3439,
         0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
         0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
         0.4000, 0.4000, 0.4000, 0.4000,
         0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200,
         0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200,
         0.4200, 0.4200, 0.4200, 0.4200,
 MCNTBI= 0.0546, 0.0546, 0.0547, 0.0554, 0.0579, 0.0650, 0.0702, 0.0755,
         0.0746, 0.0703, 0.0677, 0.0704, 0.0749, 0.0747, 0.0730, 0.0742,
         0.0813, 0.0824, 0.0801, 0.0733,
         0.0546, 0.0546, 0.0547, 0.0561, 0.0594, 0.0665, 0.0717, 0.0765,
         0.0758, 0.0719, 0.0693, 0.0720, 0.0756, 0.0754, 0.0738, 0.0750,
         0.0823, 0.0836, 0.0813, 0.0745,
         0.0546, 0.0546, 0.0555, 0.0607, 0.0643, 0.0722, 0.0767, 0.0804,
         0.0793, 0.0765, 0.0750, 0.0793, 0.0809, 0.0799, 0.0803, 0.0815,
         0.0873, 0.0882, 0.0856, 0.0797,
         0.0546, 0.0546, 0.0592, 0.0667, 0.0702, 0.0763, 0.0810, 0.0856,
         0.0853, 0.0830, 0.0826, 0.0868, 0.0879, 0.0874, 0.0880, 0.0895,
         0.0959, 0.0977, 0.0956, 0.0887,
         0.0546, 0.0546, 0.0652, 0.0733, 0.0770, 0.0822, 0.0867, 0.0921,
         0.0922, 0.0914, 0.0915, 0.0976, 0.0985, 0.0984, 0.0998, 0.1034,
         0.1121, 0.1130, 0.1107, 0.1041,
         0.1294, 0.1294, 0.1432, 0.1812, 0.2125, 0.2450, 0.2640, 0.2815,
         0.2935, 0.2950, 0.2760, 0.2570, 0.2505, 0.2450, 0.2420, 0.2365,
         0.2300, 0.2260, 0.2220, 0.2180,
         0.1150, 0.1150, 0.1272, 0.1610, 0.1887, 0.2180, 0.2345, 0.2500,
         0.2605, 0.2615, 0.2455, 0.2285, 0.2225, 0.2180, 0.2145, 0.2100,
         0.2025, 0.2010, 0.2000, 0.1993,
 MFNTBI= 0.1770, 0.1770, 0.1770, 0.1875, 0.2150, 0.2350, 0.2415, 0.2415,
         0.2400, 0.1320, 0.1325, 0.1665, 0.1805, 0.2030, 0.2080, 0.2090,
         0.2270, 0.2835, 0.2970, 0.2980,
         0.1771, 0.1771, 0.1771, 0.2260, 0.2520, 0.2597, 0.2624, 0.2659,
         0.2577, 0.2285, 0.2127, 0.2080, 0.2285, 0.2287, 0.2218, 0.2194,
         0.2397, 0.2878, 0.3019, 0.3029,
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         0.2920, 0.2763, 0.2709, 0.2665, 0.2665, 0.2613, 0.2569, 0.2555,
         0.2779, 0.3167, 0.3308, 0.3328,
         0.1771, 0.1771, 0.2223, 0.2836, 0.2995, 0.3074, 0.3072, 0.3029,
         0.2980, 0.2902, 0.2867, 0.2878, 0.2878, 0.2856, 0.2837, 0.2888,
         0.3172, 0.3491, 0.3632, 0.3668,
         0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
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 PCYTBI= 0.0735, 0.0735, 0.0735, 0.0752, 0.0800, 0.0818, 0.0828, 0.0852,
         0.0850, 0.0825, 0.0803, 0.0814, 0.0833, 0.0844, 0.0852, 0.0860,
         0.0879, 0.0854, 0.0814, 0.0843,
         0.0735, 0.0735, 0.0735, 0.0752, 0.0800, 0.0822, 0.0830, 0.0856,
         0.0853, 0.0833, 0.0811, 0.0821, 0.0852, 0.0851, 0.0857, 0.0867,
         0.0887, 0.0865, 0.0827, 0.0853,
         0.0735, 0.0735, 0.0743, 0.0789, 0.0819, 0.0838, 0.0858, 0.0894,
         0.0886, 0.0856, 0.0836, 0.0858, 0.0878, 0.0882, 0.0887, 0.0896,
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         0.0735, 0.0735, 0.0773, 0.0823, 0.0843, 0.0873, 0.0900, 0.0943,
         0.0937, 0.0904, 0.0882, 0.0911, 0.0938, 0.0940, 0.0947, 0.0968,
         0.1027, 0.1016, 0.0984, 0.0910,
         0.0735, 0.0735, 0.0808, 0.0862, 0.0877, 0.0920, 0.0960, 0.0993,
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         0.1145, 0.1130, 0.1090, 0.1013,
         0.1370, 0.1370, 0.1516, 0.1920, 0.2245, 0.2585, 0.2795, 0.2980,
         0.3105, 0.3125, 0.2925, 0.2725, 0.2650, 0.2595, 0.2560, 0.2505,
         0.2410, 0.2395, 0.2385, 0.2375,
         0.1217, 0.1217, 0.1347, 0.1703, 0.1997, 0.2305, 0.2485, 0.2645,
         0.2760, 0.2775, 0.2600, 0.2420, 0.2355, 0.2305, 0.2270, 0.2225,
         0.2142, 0.2125, 0.2117, 0.2110,
 PFYTBI= 0.4165, 0.4165, 0.4165, 0.4245, 0.4350, 0.4345, 0.4260, 0.4140,
         0.4000, 0.3810, 0.3690, 0.3460, 0.3310, 0.3220, 0.3170, 0.3130,
         0.3125, 0.3310, 0.3360, 0.3375,
         0.4165, 0.4165, 0.4165, 0.4245, 0.4350, 0.4345, 0.4260, 0.4140,
         0.4000, 0.3810, 0.3690, 0.3460, 0.3310, 0.3220, 0.3170, 0.3130,
         0.3150, 0.3345, 0.3400, 0.3410,
         0.4165, 0.4165, 0.4185, 0.4320, 0.4385, 0.4435, 0.4400, 0.4260,
         0.4110, 0.3920, 0.3755, 0.3500, 0.3365, 0.3295, 0.3245, 0.3200,
         0.3235, 0.3415, 0.3455, 0.3460,
         0.4165, 0.4165, 0.4185, 0.4320, 0.4385, 0.4435, 0.4400, 0.4260,
         0.4170, 0.3995, 0.3845, 0.3575, 0.3445, 0.3365, 0.3310, 0.3275,
         0.3320, 0.3480, 0.3535, 0.3550,
         0.4165, 0.4165, 0.4200, 0.4320, 0.4385, 0.4435, 0.4400, 0.4260,
         0.4170, 0.3995, 0.3860, 0.3650, 0.3520, 0.3435, 0.3385, 0.3370,
         0.3505, 0.3680, 0.3735, 0.3750,
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 MCYTBI= 0.0755, 0.0755, 0.0755, 0.0768, 0.0801, 0.0826, 0.0843, 0.0873,
         0.0870, 0.0842, 0.0824, 0.0825, 0.0853, 0.0854, 0.0851, 0.0874,
         0.0911, 0.0912, 0.0880, 0.0797,
         0.0755, 0.0755, 0.0755, 0.0775, 0.0806, 0.0830, 0.0854, 0.0883,
         0.0877, 0.0850, 0.0832, 0.0834, 0.0853, 0.0865, 0.0862, 0.0886,
         0.0921, 0.0923, 0.0893, 0.0810,
         0.0755, 0.0755, 0.0761, 0.0814, 0.0842, 0.0876, 0.0898, 0.0921,
         0.0913, 0.0880, 0.0854, 0.0875, 0.0898, 0.0912, 0.0916, 0.0927,
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         0.1047, 0.1070, 0.1051, 0.0957,
         0.0755, 0.0755, 0.0832, 0.0912, 0.0938, 0.0967, 0.0999, 0.1018,
         0.1014, 0.0985, 0.0969, 0.0996, 0.1044, 0.1074, 0.1090, 0.1112,
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         0.1370, 0.1370, 0.1516, 0.1920, 0.2245, 0.2585, 0.2795, 0.2980,
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         0.2410, 0.2395, 0.2385, 0.2375,
         0.1217, 0.1217, 0.1347, 0.1703, 0.1997, 0.2305, 0.2485, 0.2645,
         0.2760, 0.2775, 0.2600, 0.2420, 0.2355, 0.2305, 0.2270, 0.2225,
         0.2142, 0.2125, 0.2117, 0.2110,
 MFYTBI=  .4140,  .4140,  .4140,  .4165,  .4335,  .4330,  .4260,  .4160,
          .4040,  .3865,  .3755,  .3550,  .3335,  .3245,  .3245,  .3185,
          .3160,  .3370,  .3400,  .3400,
         0.4140, 0.4140, 0.4140, 0.4220, 0.4345, 0.4340, 0.4290, 0.4200,
         0.4080, 0.3935, 0.3810, 0.3585, 0.3365, 0.3270, 0.3275, 0.3215,
         0.3160, 0.3300, 0.3360, 0.3360,
         0.4140, 0.4140, 0.4185, 0.4340, 0.4425, 0.4420, 0.4370, 0.4290,
         0.4170, 0.4015, 0.3885, 0.3660, 0.3480, 0.3400, 0.3380, 0.3320,
         0.3295, 0.3445, 0.3480, 0.3480,
         0.4140, 0.4140, 0.4235, 0.4365, 0.4420, 0.4415, 0.4370, 0.4280,
         0.4200, 0.4060, 0.3940, 0.3745, 0.3685, 0.3575, 0.3480, 0.3425,
         0.3450, 0.3560, 0.3600, 0.3600,
         0.4140, 0.4140, 0.4270, 0.4385, 0.4425, 0.4465, 0.4440, 0.4295,
         0.4210, 0.4075, 0.3980, 0.3780, 0.3710, 0.3620, 0.3545, 0.3525,
         0.3645, 0.3770, 0.3800, 0.3800,
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         0.4390, 0.4390, 0.4390, 0.4390, 0.4390, 0.4390, 0.4390, 0.4390,
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  CSAC2=    0.2830,    0.2830,
   CND2=    0.0030,    0.0030,
  DCME2=   -0.0020,   -0.0020,
   CYD2=    0.0040,    0.0040,
  DCMZ2=    0.0020,    0.0020,
 PCNTII=    0.0688,    0.0688,
            0.0695,    0.0695,
            0.0732,    0.0732,
            0.0805,    0.0805,
            0.0939,    0.0939,
            0.1875,    0.1875,
            0.1762,    0.1762,
 PFNTII=    0.2515,    0.2515,
            0.2414,    0.2414,
            0.2474,    0.2474,
            0.2683,    0.2683,
            0.2991,    0.2991,
            0.3700,    0.3700,
            0.3760,    0.3760,
 MCNTII=    0.0707,    0.0707,
            0.0715,    0.0715,
            0.0760,    0.0760,
            0.0840,    0.0840,
            0.0972,    0.0972,
            0.1875,    0.1875,
            0.1762,    0.1762,
 MFNTII=    0.2515,    0.2515,
            0.2543,    0.2543,
            0.2618,    0.2618,
            0.2812,    0.2812,
            0.3091,    0.3091,
            0.3700,    0.3700,
            0.3760,    0.3760,
 PCYTII=    0.0620,    0.0620,
            0.0630,    0.0630,
            0.0682,    0.0682,
            0.0758,    0.0758,
            0.0852,    0.0852,
            0.1858,    0.1858,
            0.1780,    0.1780,
 PFYTII=    0.2540,    0.2540,
            0.2580,    0.2580,
            0.2620,    0.2620,
            0.2760,    0.2760,
            0.2960,    0.2960,
            0.3650,    0.3650,
            0.3710,    0.3710,
 MCYTII=    0.0672,    0.0672,
            0.0685,    0.0685,
            0.0742,    0.0742,
```

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             0.0812,    0.0812,
             0.0885,    0.0885,
             0.1858,    0.1858,
             0.1780,    0.1780,
 MFVTII=     0.2540,    0.2540,
             0.2535,    0.2535,
             0.2660,    0.2660,
             0.2810,    0.2810,
             0.3010,    0.3010,
             0.3650,    0.3650,
             0.3710,    0.3710,
  TLURPT = 1./
  TLURO = 2,
  TLUPA = 2,
  TLUTN =2,
   PSUBAC = 0.014503,
   RHOMC = 0.19414617-5,
   TTEMPC = 1.,
   TTEMPB = 273.16,
 ALTPRT =
            -1000.,      0.,   1000.,   2000.,   3000.,   4000.,   5000.,
    6000.,   7000.,   8000.,   9000.,  10000.,  11000.,  12000.,  13000.,
   14000.,  15000.,  16000.,  17000.,  18000.,  19000.,  20000.,  21000.,
   22000.,  23000.,  24000.,  25000.,  26000.,  27000.,  28000.,  29000.,
   30000.,  31000.,  32000.,  33000.,  34000.,  35000.,  36000.,  37000.,
   38000.,  39000.,  40000.,  41000.,  42000.,  43000.,  44000.,  45000.,
   46000.,  47000.,  48000.,  49000.,  50000.,  51000.,  52000.,  53000.,
   54000.,  55000.,  56000.,  57000.,  58000.,  59000.,  60000.,  61000.,
   62000.,  63000.,  64000.,  65000.,  66000.,  67000.,  68000.,  69000.,
   70000.,  71000.,  72000.,  73000.,  74000.,  75000.,  76000.,  77000.,
   78000.,  79000.,  80000.,  81000.,  82000.,  83000.,  84000.,  85000.,
   86000.,  87000.,  88000.,  89000.,  90000.,  91000.,  92000.,  93000.,
   94000.,  95000.,  96000.,  97000.,  98000.,  99000., 100000., 101000.,
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      130000., 140000., 150000., 155480., 1000000.,
  PSUBAT=
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     639.80,   616.26,   593.44,   571.30,   549.84,   529.06,   508.96,
     489.50,   470.70,   452.48,   434.84,   417.76,   401.22,   385.25,
     369.77,   354.79,   340.30,   326.26,   312.65,   299.48,   286.77,
     274.46,   262.57,   251.07,   239.94,   229.19,   218.81,   208.79,
     199.09,   189.75,   180.77,   172.13,   163.84,   155.86,   148.21,
     140.89,   133.88,   127.31,   121.06,   115.12,   109.49,   104.11,
      99.00,    94.15,    89.53,    85.14,    80.97,    77.06,    73.36,
      69.66,    66.53,    63.37,    60.36,    57.51,    54.81,    52.25,
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      35.89,    34.27,    32.72,    31.24,    29.82,    28.47,    27.18,
      25.55,    24.77,    23.65,    22.59,    21.58,    20.62,    19.70,
      18.82,    17.99,    17.19,    16.44,    15.72,    15.02,    14.36,
      13.73,    13.13,    12.56,    12.02,    11.50,    11.00,    10.53,
      10.08, 9.65, 7.60, 4.95, 3.30, 2.25, 1.50, 1.20, 0.0,
 TTEMPT =
        29.6,     29.6,     25.6,     23.9,     22.1,     20.2,     18.0,
        16.1,     14.1,     12.0,     10.9,      9.6,      7.9,      5.8,
         4.0,      2.3,      0.3,    - 1.5,    - 3.3,    - 4.7,    - 6.4,
       - 7.8,    - 9.4,    -11.7,    -13.4,    -15.3,    -17.0,    -19.1,
       -21.2,    -23.5,    -25.7,    -28.3,    -31.1,    -32.9,    -35.4,
       -37.8,    -40.5,    -43.0,    -45.7,    -48.3,    -50.9,    -53.9,
       -56.4,    -58.8,    -60.5,    -62.6,    -64.4,    -66.8,    -67.9,
       -70.2,    -68.9,    -67.4,    -67.8,    -67.0,    -67.2,    -67.5,
       -68.1,    -67.0,    -67.5,    -67.8,    -65.9,    -63.4,    -62.3,
       -61.1,    -61.2,    -60.8,    -59.9,    -59.2,    -57.5,    -56.1,
       -56.6,    -55.3,    -54.7,    -53.2,    -52.0,    -51.1,    -50.1,
       -49.4,    -49.8,    -50.2,    -50.8,    -50.6,    -50.2,    -50.8,
       -50.5,    -50.5,    -49.3,    -48.8,    -48.0,    -46.7,    -46.6,
       -46.0,    -45.6,    -44.7,    -43.9,    -43.5,    -44.3,    -44.2,
       -43.4,    -42.2,    -41.3,    -40.1,    -39.2,    -38.8,    -38.5,
    -37.1,-35.7,-31.5,-22.5,-14.0,-5.0,+3.5, 13.0, 13.0,
   RHOMT =
      1159.02,  1159.02,  1135.68,  1105.31,  1074.71,  1046.08, 1018.19,
       989.67,   961.36,   934.55,   905.42,   877.50,   851.06,  826.40,
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       641.85,   621.05,   602.33,   582.82,   564.13,   545.45,  528.23,
       511.26,   495.15,   479.22,   464.31,   450.11,   434.45,  420.33,
       406.42,   393.23,   380.21,   367.57,   355.14,   343.13,  331.82,
       320.14,   308.56,   296.32,   284.90,   273.59,   263.24,  251.71,
       241.96,   226.44,   215.64,   205.50,   194.58,   185.30,  176.46,
       168.30,   159.17,   151.75,   144.51,   136.18,   128.02,  121.28,
       114.83,   109.39,   103.98,    98.67,    93.67,    88.58,   83.89,
        80.16,    75.98,    72.27,    68.49,    65.00,    61.79,   58.72,
        55.90,    53.46,    51.14,    48.96,    46.69,    44.49,   42.60,
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         20.83,  19.81,  18.87,  17.97,  17.12,  16.36,  15.63,
    14.88, 14.16, 11.15, 6.95, 4.55, 3.00, 1.95, 1.49, 0.0,
  *
  CCC  =9,1,50H JETTISON NOSE FAIRING AND INSULATION PANELS          *
  SX =  3  ,  3  ,
  ST =  26.9  ,  51.9  ,
   SW = 1225., 2005.,
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 CCC=2,38*
  TIME1 = 0., 100.,
  WDOT1 = 4.44, 4.44,
  THST1 = 8.72, 8.72,
  TIME2 = 0.,.1,.2,.3,.4,.5,.6,.7,.8,.9,1.0,1.1,1.2,1.3,1.4,1.5,1.6,1.7,
          1.8,1.9,2.0,10000.,
  THST2 =      6.72,   608.72,  2008.72,  2008.72,  2308.72,  2308.72,
           2608.72,  3208.72,  4608.72, 12808.72, 31808.72, 31208.72,
          30408.72, 29608.72, 28608.72, 28808.72, 29408.72, 29708.72,
          29906.72, 30008.72, 30008.72, 30008.72,
  WDOT2 =  8.903    ,  8.303    ,  9.503    ,  9.103    ,  8.703    ,
          10.103    , 12.103    , 12.703    , 15.103    , 28.503    ,
          56.303    , 64.903    , 64.103    , 73.703    , 75.103    ,
          70.503    , 72.503    , 72.103    , 71.303    , 70.103    ,
          69.387064, 69.384064,
  TIME3 = 0., 0.16, 0.16000001, 124.99999, 125., 299., 301., 344., 345.,
      1026.,
      1027., 2000.,
  THST3 = 0., -0.62401242-1, 0., 0., -37.4, -37.7, -33., -33.6, -22.9,
     -12.3, 0., 0.,
  WDOT3 = 0., 0., 0., 0., 1.725, 1.742, 1.179, 1.170, 0.405, 0.140,0.,0.,
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 CCC=4,1,*
 RLIM= 0., 1., 2.2, 1.6, 1.6,
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 GLK(3)=8., GLK(4)= 00., GLK(5)= 4.,
  E(1) = 5.9, 550., 630.,
  E(4) = .10+5 , .40+5 , .20+4 , .03 ,
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 E(8) = 1.9 , .007 , 350.0 , 100., .280+08,
E(13)=1500.,
E(14)=560.,
E(15)= 5.9,
 I(1) = .12966541+4, .34743744+3, -.322+2      ,
  I(4) = .15206647+5 , -.56751978+5 , .20909816+8 ,
  I(7) = .322+2 , .355+5 ,  .1342+4,  .30+5 ,
 K(1) = .14076539+17,
 K(2) = 23.5 , -0.99 ,
 K(4) = 0.21866848+08,-0.31678034+07, 0.18143634-01,-0.99673504-01,
  K(8)= 0.55810664+07,
 K(9)= 0.23877091-06,-0.43310611-03,-0.19070706-12,
 K(12)= 0.17473147+05, 0.36279207+04,-0.75538885-05, 0.12388931-03,
 K(16)= 0.62350104+04,
K(17)= .15, K(18)= .40925900, K(19)= .0013 , K(20)= 36000.,
 K(19)=-.0013,
K(21)=-4.,
K(22)=-.30076330-01, .24078853,-.10643349+01,
K(25)= .90462493, .27728184,-.21241567+02, .10957065+03,
K(29)=-.13102096+03, .10638315+03,-.32799193+02, .11120200+03,
K(33)=.8-8,
K(34)= .9-03,
K(99) = .4,
K(100)=.1-31,
 K(101) = 1., .75,
 K(103)= -.01 , .035 , .005 ,
D(1)=1.,1.,1.,
 I(1) = .12166588+04, .56733731+03,
 I(4) = .24823368+05, -.53233885+05,
I(1)=-32.2,32.2,1342.,.355+5,30+5,.20909816+8,
 K(19) = -.00175,
J(42)=1216.6588, 567.33731, 24823.368, -53233.885,
 PRTFLG = 1.,
*
CCC = 4, 1, 56H              GUIDANCE INPUT                    *
 J( 1)=-0.40369016-00, 0.46247085-04, 0.10266958-08,-0.54328343-13,
 J( 5)= -0.30314729-17,
 J( 6)=-0.16857181-00, 0.38380385-04,-0.88343719-09,-0.38656905-13,
 J(10)=  0.37732661-17,
 J(11)=-0.11533350+08, 0.17431387+03,-0.52038705-01,-0.63366950-07,
 J(15)= -0.95482014-10,
 J(16)= 0.30448401-01, 0.67576705-04,-0.11558225-08,-0.17407320-13,
 J(20)= -0.14401112-16,
 J(21)=-0.27289493+04, 0.11666372+01,-0.50387756-05,-0.38196332-09,
 J(25)= -0.28127520-12,
 J(26)= 0.13222177+01,-0.18690193-03, 0.18831933-07,-0.70701808-12,
 J(30)= -0.11843472+06,       J(31)=  0.54596564-02,
 J(32)= 0.21793736+08,-0.12573355+03, 0.13966911-01,
 J(35)= 0.20677527+05, 0.34020880-00,-0.50872056-04,
 J(38)= 0.36615646+03,-0.46536056+00, 0.67611214-04,
*
CCC=0,0* TSUBL = 52256.43, ID = 12H-6 NOM        , *
CCC=2,30,*TROLR = 0., 1.573906, *
CCC=4,1* J(41) = -715.46,*
CCC=0,0,/
```

CASE 1 TRAJECTORY ID -6 NOM SECTION 1 PAGE 1

ENGLISH UNITS

TIME / LONGITUDE / GEOCENT LAT	ALTITUDE / R MAGNITUDE / GRND RANGE	VELOCITY RA / THRST FIXED / THRST CONTL	FLT PATH R / PITCH ATT / PITCH RATE	VELOCITY I / WEIGHT / WEIGHT DOT	FLT PATH I / AXL LD FCTR / MACH NUMBER	AXL FORCE / NORM FORCE / SIDE FORCE	VEL R AZ / ALPHA / BETA	DYNM PRS / ATM PRS / REY NUMB
-0.	0.	0.	-0.01038	1342.434	-0.	0.	88.437	0.
279.4588	20909901.00	0.	89.98788	303510.000	0.99851	0.	0.	0.
28.3075	0.09	0.	0.00333	0.	0.	0.	0.	0.
1.0000	0.	0.	-0.04423	1342.434	-0.	0.	88.439	0.
279.4588	20909901.00	0.	89.98436	303510.000	0.99851	0.	0.	0.
28.3075	0.09	0.	0.00333	0.	0.	0.	0.	0.
5.0000	0.	0.	-0.16226	1342.434	-0.	0.	94.456	0.
279.4588	20909901.00	0.	89.96951	303510.000	0.99851	0.	0.	0.
28.3075	0.08	0.	0.00333	0.	0.	0.	0.	0.
8.0000	0.	0.	-0.30312	1342.434	-0.	0.	88.454	0.
279.4588	20909901.00	0.	89.95862	303510.000	0.99851	0.	0.	0.
28.3075	0.14	0.	0.00333	0.	0.	0.	0.	0.
8.0000	0.	0.	-0.30312	1342.434	-0.	0.	88.454	0.
279.4588	20909901.00	0.	89.95862	303510.000	0.99851	0.	0.	0.
28.3075	0.14	0.	0.00333	0.	0.	0.	0.	0.

```
CASE  1                               TRAJECTORY ID  -6 NOM                                SECTION  2                             PAGE   2
                 TIME             ALTITUDE        VELOCITY RA   FLT PATH R     VELOCITY I    FLT PATH I   AXL FORCE     VEL R AZ     DYNM PRS
                 LONGITUDE        R MAGNITUDE     THRST FIXED   PITCH ATT      WEIGHT        AXL LD FCTR  NORM FORCE    ALPHA        ATM PRS
                 GEOCENT LAT      GRND RANGE      THRST CONTL   PITCH RATE     WEIGHT DOT    MACH NUMBER  SIDE FORCE    BETA         REV NUMB
ENGLISH UNITS
      OM XI              AC XI            VMU            RMU              L11            L12            L13            ACOL11
      OM ETA             AC ETA           VMV            RMV              L21            L22            L23            ACOL12
      OM ZET             AC ZET           VMW            RMW              L31            L32            L33            ACOL13
      D LOSS             G LOSS           M LOSS         ML ALF           ML BET         T LOSS         SP IMP         TOT IN
      H FLUX             H PARA           DBLOSS         IISP
1       NPSH             MIX              W.B            W.S              WF             WO             VALVE          ACS
2       PIPFB            PIPOB            PIPFS          PIPOS            FUDEN          OXDEN          F STA          O STA
3       W.FB             W.OB             W.FS           W.OS             W.FV           W.OV           W.F            W.O
4       THINC            FUINC            OXINC          CAPF             CAPO           CAPRA          IGFP           MIXRS
5       PG(F)            PG(O)            PVPO           PSUBA            BMIXR          BTHINC         BFUINC         BOXINC
6       DPF              DPO              WBOI           WSOI             WBHE           WSHE           EDO

              8.0000             0.          10.128      -0.30312       1342.434      -0.             -2.81    88.454          0.12
            279.4588     20909901.00      58191.760      89.95862     303510.000       1.26159         93.98    90.276       2126.65
             28.3075           0.14      324715.988      0.              1564.540       0.00885         99.40    90.193      59643.56
 0.              0.12615871+01  0.12164825+04  0.35681728+05  0.51849660-03 -0.31032195-03 -0.99999972+00  0.89970290+02
 0.              0.19600580-02  0.56771466+03 -0.48168446+05  0.24190104-03  0.99999980+00 -0.31016560-03  0.89986139+02
 0.              0.16233920-02 -0.76807346+00  0.20909815+08  0.99999974+00 -0.24170045-03  0.51859014-03  0.41377734-01
 0.              0.              0.             0.              0.             0.             0.24474143+03  0.
 0.11688587+01   0.              0.             0.24474143+03
1  0.66927810+02  0.22232191+01  0.12877446+04  0.27438493+03  0.76103000+05  0.17228600+06 -0.31779868+01  0.12615871+01
2  0.70947199+02  0.53627038+02  0.73036910+02  0.58264477+02  0.50379999+02  0.69239999+02  0.93769233+03  0.55371757+03
3  0.40271276+03  0.88503192+03  0.81936140+02  0.19244879+03  0.             0.             0.48464890+03  0.10774807+04
4  0.12622954+03 -0.24245907+01  0.25491815+01  0.40560748+05  0.93935074+05  0.             0.79109414+01  0.22511999+01
5  0.59500000+02  0.25500000+02  0.26083355+02  0.14768405+02  0.21976453+01 -0.12448779+03  0.75330347-01  0.17764302-03
6  0.68452233+01  0.19392707+02  0.16599999+03  0.52999999+02  0.86000000+02  0.16900000+03  0.61115132+00  0.69239999+02

              9.0000           3.25          13.205      89.30684       1342.441       0.36578         -4.77   348.260          0.20
            279.4588     20909905.00      58202.271      89.95862     301945.453       1.26818         49.31    34.407       2126.42
             28.3075           0.21      324725.133      0.              1564.731       0.01154         79.11    43.815      77761.95
 0.              0.12681826+01  0.12164160+04  0.36898177+05  0.51849660-03 -0.31032195-03 -0.99999972+00  0.89970290+02
 0.              0.18929176-02  0.56782056+03 -0.47600678+05  0.24190104-03  0.99999980+00 -0.31016560-03  0.89986139+02
 0.              0.15602337-02  0.77162626+01  0.20909818+08  0.99999974+00 -0.24170045-03  0.51859014-03  0.41377734-01
 0.32934731-03  -0.32934731-03  0.32209548+02  0.17956949-02  0.55384636-03  0.32211673+02  0.24471771+03  0.38291747+06
 0.25905138+01   0.18796863+01  0.75486559+02  0.24472398+03
1  0.66576338+02  0.22248350+01  0.12877654+04  0.27455597+03  0.75618440+05  0.17120843+06 -0.34264820+01  0.12681826+01
2  0.70922482+02  0.53651248+02  0.73019928+02  0.58294577+02  0.50379999+02  0.69238997+02  0.93959998+03  0.55646646+03
3  0.40270361+03  0.88506179+03  0.81761906+02  0.19279407+03  0.             0.             0.48446551+03  0.10778558+04
4  0.13492686+03 -0.25985374+01  0.28379747+01  0.40250372+05  0.93276624+05  0.             0.69555325+01  0.22511762+01
5  0.59500000+02  0.25500000+02  0.26090587+02  0.14766812+02  0.21977695+01 -0.12409268+03  0.75091299-01  0.17708143-03
6  0.88208852+01  0.19353441+02  0.16504999+03  0.52850000+02  0.85389999+02  0.16830000+03  0.65893885+00  0.69238997+02

             10.0000          16.25          20.045      89.31429       1342.502       0.74069        -10.98   347.420          0.45
            279.4588     20909918.00      58220.296      89.95862     300380.734       1.27491         50.10    19.589       2125.50
             28.3075           0.28      324750.562      0.              1564.919       0.01752         82.40    24.706     118022.98
 0.              0.12749127+01  0.12163488+04  0.38114560+05  0.51849660-03 -0.31032195-03 -0.99999972+00  0.89970290+02
 0.              0.19304506-02  0.56792516+03 -0.47032806+05  0.24190104-03  0.99999980+00 -0.31016560-03  0.89986139+02
 0.              0.15533622-02  0.16414593+02  0.20909830+08  0.99999974+00 -0.24170045-03  0.51859014-03  0.41377734-01
 0.10228605-02  -0.10228605-02  0.64416700+02  0.52732315-02  0.16291142-02  0.64422996+02  0.24471312+03  0.76586649+06
 0.90580930+01   0.77039897+01  0.78145825+02  0.24472241+03
1  0.67035633+02  0.22264203+01  0.12877893+04  0.27471998+03  0.75134062+05  0.17013049+06 -0.36667731+01  0.12749127+01
2  0.70896909+02  0.53680468+02  0.73002301+02  0.58329847+02  0.50379999+02  0.69237997+02  0.94141688+03  0.55908345+03
3  0.40269233+03  0.88509668+03  0.81593275+02  0.19312670+03  0.             0.             0.48428561+03  0.10782234+04


CASE  1                               TRAJECTORY ID  -6 NOM                                SECTION  2                             PAGE   3
4  0.14333706+03 -0.27667411+01  0.32334823+01  0.39954835+05  0.92649727+05  0.             0.69027729+01  0.22511423+01
5  0.59500000+02  0.25500000+02  0.26097813+02  0.14760445+02  0.21979178+01 -0.12362120+03  0.74806033-01  0.17641126-00
6  0.88004324+01  0.19322181+02  0.16410000+03  0.52700000+02  0.84779999+02  0.16760000+03  0.70514869+00  0.69237997+02

             12.0000          69.00          37.006      89.30522       1342.795       1.51846        -37.36   344.528          1.54
            279.4586     20909970.75      58274.558      89.95867     297250.609       1.28874         82.24    11.275       2121.78
             28.3075           0.88      324843.293      0.              1565.171       0.03235        111.78    11.787     217780.10
 0.15739059+01   0.12887433+01  0.12161960+04  0.40547110+05  0.51849660-03 -0.55221893-01 -0.99847387+00  0.89970290+02
 0.              0.21049261-02  0.56813561+03 -0.45896745+05  0.24190104-03  0.99847394+00 -0.55221740-01  0.89986139+02
 0.              0.18348902-02  0.34471483+02  0.20909881+08  0.99999974+00 -0.21285892-03  0.53107993-03  0.41377734-01
 0.56086286-02  -0.56086286-02  0.12883098+03  0.12049717-01  0.36294460-02  0.12884863+03  0.24472332+03  0.15319446+07
 0.56938524+02   0.65954512+02  0.84486530+02  0.24477691+03
1  0.67162078+02  0.22289940+01  0.12876316+04  0.27492935+03  0.74165804+05  0.16797344+06 -0.40575324+01  0.12887433+01
2  0.70840775+02  0.53742332+02  0.72962499+02  0.58404147+02  0.50379999+02  0.69235998+02  0.94484702+03  0.56409404+03
3  0.40266497+03  0.88516668+03  0.81312681+02  0.19361667+03  0.             0.             0.48397765+03  0.10787833+04
4  0.15701363+03 -0.30460259+01  0.37345194+01  0.39397253+05  0.91449387+05  0.             0.68031967+01  0.22510446+01
5  0.59500000+02  0.25500000+02  0.26112247+02  0.14734610+02  0.21982413+01 -0.12259255+03  0.74183670-01  0.17494915-00
6  0.87675738+01  0.19272501+02  0.16220000+03  0.52400000+02  0.83559999+02  0.16620000+03  0.78029470+00  0.69235998+02

             14.0000         159.25          55.725      89.28168       1343.330       2.33444        -84.46   340.406          3.48
            279.4588     20910061.00      58353.860      89.95862     294120.316       1.30307        145.51     9.252       2115.42
             28.3075           2.03      324969.738      0.              1565.117       0.04875        125.56     6.157     327647.99
 0.15739059+01   0.13030662+01  0.12160034+04  0.42979317+05  0.51849660-03 -0.10996682-00 -0.99393500+00  0.89970290+02
 0.              0.22034466-02  0.56834363+03 -0.44760264+05  0.24190104-03  0.99393509+00 -0.10996667-00  0.89986139+02
 0.              0.23470701-02  0.53434408+02  0.20909969+08  0.99999974+00 -0.18337506-03  0.54195715-03  0.41377734-01
 0.18062320-01  -0.18062320-01  0.19324473+03  0.18862072-01  0.54957867-02  0.19328164+03  0.24475627+03  0.22983970+07
 0.19406307+03   0.30217491+03  0.89997760+02  0.24492957+03
1  0.67269661+02  0.22304713+01  0.12878475+04  0.27485958+03  0.73198105+05  0.16581567+06 -0.43140398+01  0.13030662+01
2  0.70774573+02  0.53601469+02  0.72913206+02  0.58476143+02  0.50379999+02  0.69232997+02  0.94807522+03  0.56892147+03
3  0.40263403+03  0.88521350+03  0.81105631+02  0.19375395+03  0.             0.             0.48373967+03  0.10789675+04
4  0.16599139+03 -0.32512318+01  0.36684238+01  0.38872278+05  0.90291627+05  0.             0.67095131+01  0.22508945+01
5  0.59500000+02  0.25500000+02  0.26133919+02  0.14690409+02  0.21985268+01 -0.12168473+03  0.73634412-01  0.17365883-00
6  0.87429217+01  0.19233780+02  0.16029999+03  0.52100000+02  0.82339999+02  0.16480000+03  0.82962305+00  0.69232997+02

             16.0000         288.75          75.636      89.25228       1344.125       3.18969       -155.00   335.140          6.40
            279.4588     20910190.50      58459.568      89.95862     290990.148       1.31790        239.30     8.450       2106.29
             28.3075           3.59      325191.051      0.              1565.048       0.06622         78.80     2.025     444144.29
 0.15739059+01   0.13178953+01  0.12157566+04  0.45411088+05  0.51849660-03 -0.16437991-00 -0.98639682+00  0.89970290+02
 0.              0.20015598-02  0.56853321+03 -0.43623383+05  0.24190104-03  0.98639692+00 -0.16437977-00  0.89986139+02
 0.              0.31049868-02  0.73335671+02  0.20910095+08  0.99999974+00 -0.15333784-03  0.55121891-03  0.41377734-01
 0.43434123-01  -0.43434123-01  0.25765755+03  0.25826870-01  0.73521137-02  0.25772680+03  0.24483273+03  0.30653800+07
 0.48399667+03   0.95656021+03  0.94469961+02  0.24513645+03
1  0.67346471+02  0.22312472+01  0.12678292+04  0.27480929+03  0.72230771+05  0.16365767+06 -0.44392903+01  0.13178953+01
2  0.70695002+02  0.53852117+02  0.72851148+02  0.58540094+02  0.50379999+02  0.69228997+02  0.95117195+03  0.57366922+03
3  0.40259932+03  0.88522990+03  0.81002949+02  0.19380635+03  0.             0.             0.48360227+03  0.10790362+04
4  0.17037516+03 -0.33514322+01  0.39635742+01  0.38369007+05  0.89151751+05  0.             0.66196683+01  0.22526878+01
5  0.59500000+02  0.25500000+02  0.26162611+02  0.14626984+02  0.21987573+01 -0.12095167+03  0.73190890-01  0.17251685-00
6  0.87240291+01  0.19200902+02  0.15840000+03  0.51799999+02  0.81119999+02  0.16339999+03  0.85370970+00  0.69228997+02

             18.0000         459.00          96.654      89.22845       1345.208       4.08528       -251.88   328.499         10.41
            279.4588     20910360.75      58593.409      89.95862     287860.137       1.33326        332.28     7.273       2094.28
             28.3075           5.96      325451.625      0.              1564.968       0.08472       -107.12    -1.842     566590.04
 0.15739059+01   0.13332583+01  0.12154534+04  0.47842305+05  0.51849660-03 -0.21829697-00 -0.97588208+00  0.89970290+02
 0.              0.10926376-02  0.56866643+03 -0.42486169+05  0.24190104-03  0.97588219+00 -0.21829683-00  0.89986139+02
 0.              0.36741855-02  0.94209191+02  0.20910263+08  0.99999974+00 -0.12283792-03  0.55980731-03  0.41377734-01
 0.87753663-01  -0.87753663-01  0.32206926+03  0.32945506-01  0.93088150-02  0.32218996+03  0.24491981+03  0.38330638+07
 0.10065054+04   0.24122912+04  0.98156984+02  0.24540100+03
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CASE  1                          TRAJECTORY ID  -6 NOM                              SECTION  2                              PAGE   4
1   0.67400078+02  0.22314389+01  0.12877837+04  0.27477476+03  0.71263631+05  0.16149960+06 -0.44497058+01  0.13332583+01
2   0.70599639+02  0.53891120+02  0.72773927+02  0.58592875+02  0.50379999+02  0.69224998+02  0.95418486+03  0.57839757+03
3   0.40255759+03  0.88522617+03  0.80991235+02  0.19378352+03  0.             0.             0.48354882+03  0.10790096+04
4   0.17073970+03 -0.33597646+01  0.39698234+01  0.37879454+05  0.88016649+05  0.             0.65322727+01  0.22504294+01
5   0.59500000+02  0.25500000+02  0.26191692+02  0.14543601+02  0.21989761+01 -0.12025568+03  0.72769787-01  0.17162757-00
6   0.87092064+01  0.19171061+02  0.15650000+03  0.51499999+02  0.79899999+02  0.16200000+03  0.85571267+00  0.69224998+02

             20.0000       672.75      118.438     89.21146      1346.639       5.02219     -375.99  321.560       15.57
            279.4588  20910574.50    58758.429     89.95862    284730.297       1.34919      370.26    5.379     2079.20
             28.3075         8.80   325775.203     0.             1564.868       0.10396     -119.26   -1.399   692769.66
 0.15739059+01  0.13491936+01  0.12151152+04  0.50272878+05  0.51849660-03 -0.27155528-00 -0.96242251+00  0.89970290+02
 0.             0.10398684-02  0.56873097+03 -0.41348767+05  0.24190104-03  0.96242262+00 -0.27155516-00  0.89986139+02
 0.             0.42161211-02  0.11609069+03  0.20910473+08  0.99999974+00 -0.91967327-04  0.56470945-03  0.41377734-01
 0.15756773-00 -0.15756773-00  0.38647588+03  0.40034238-01  0.11490345-01  0.38667747+03  0.24532727+03  0.46016296+07
 0.18439056+04  0.52174891+04  0.10126538+03  0.24572895+03
1   0.67426955+02  0.22311758+01  0.12677083+04  0.27474995+03  0.70296527+05  0.15934169+06 -0.43720306+01  0.13491936+01
2   0.70466158+02  0.53916773+02  0.72679261+02  0.58632822+02  0.50379999+02  0.69220997+02  0.95714522+03  0.58312645+03
3   0.40250816+03  0.88520013+03  0.81049003+02  0.19370095+03  0.             0.             0.48355717+03  0.10789010+04
4   0.16802107+03 -0.32976245+01  0.39232183+01  0.37398517+05  0.86881547+05  0.             0.64464152+01  0.22501148+01
5   0.59500000+02  0.25500000+02  0.26220592+02  0.14438914+02  0.21991816+01 -0.11960223+03  0.72374431-01  0.17069876-00
6   0.86574619+01  0.19143496+02  0.15459999+03  0.51199999+02  0.78679999+02  0.16059999+03  0.84077514+00  0.69220997+02

             22.0000       931.25      141.282     89.18708      1348.509       6.00118     -531.29  316.568       22.04
            279.4588  20910833.00    58956.878     89.95862    281600.687       1.36572      368.24    3.749     2060.97
             28.3075        12.36   326163.637     0.             1564.739       0.12422      -34.14   -0.367   824165.24
 0.15739059+01  0.13657205+01  0.12147532+04  0.52702750+05  0.51849660-03 -0.32399414-00 -0.94605872+00  0.89970290+02
 0.             0.14860579-02  0.56879383+03 -0.40211244+05  0.24190104-03  0.94605884+00 -0.32399403-00  0.89986139+02
 0.             0.42425770-02  0.13901807+03  0.20910728+08  0.99999974+00 -0.60819209-04  0.55890751-03  0.41377734-01
 0.25960869-00 -0.25960869-00  0.45088939+03  0.47027174-01  0.13930321-01  0.45119572+03  0.24515585+03  0.53712708+07
 0.31133799+04  0.10112385+05  0.10399023+03  0.24612429+03
1   0.67426293+02  0.22306440+01  0.12876020+04  0.27472701+03  0.69329379+05  0.15718405+06 -0.42436921+01  0.13657205+01
2   0.70353074+02  0.53928646+02  0.72565686+02  0.58659516+02  0.50379999+02  0.69216997+02  0.96007561+03  0.58785350+03
3   0.40245052+03  0.88515154+03  0.81146256+02  0.19358075+03  0.             0.             0.48359678+03  0.10787322+04
4   0.16352922+03 -0.31949537+01  0.38462152+01  0.36922506+05  0.85747015+05  0.             0.63614370+01  0.22497415+01
5   0.59500000+02  0.25500000+02  0.26249477+02  0.14312309+02  0.21993761+01 -0.11898394+03  0.72000347-01  0.16981994-00
6   0.86879227+01  0.19118230+02  0.15269999+03  0.50900000+02  0.77460000+02  0.15920000+03  0.81609465+00  0.69216997+02

             24.0000      1237.25      165.368     89.20217      1351.045       7.02207     -720.91  315.895       29.96
            279.4588  20911139.00    59189.327     89.48670    278471.375       1.38283      323.43    2.393     2039.55
             28.3075        16.69   326611.527     0.48000        1564.555       0.14557      105.23    0.500   958487.36
 0.             0.13828301+01  0.12145216+04  0.55131923+05  0.83665285-02 -0.34985673-00 -0.93676562+00  0.89520626+02
 0.47999998-00  0.22291901-02  0.56893006+03 -0.39073564+05  0.31728105-02  0.93680296+00 -0.34984230-00  0.89818209+02
 0.             0.39247236-02  0.16302941+03  0.20911030+08  0.99995987+00 -0.45170428-04  0.89478245-02  0.51329532+00
 0.40197910-00 -0.40197910-00  0.51529659+03  0.56076959-01  0.18581152-01  0.51575465+03  0.24530620+03  0.61421818+07
 0.49538911+04  0.18099199+05  0.10637618+03  0.24658807+03
1   0.67367821+02  0.22297957+01  0.12874412+04  0.27470396+03  0.68362118+05  0.15502682+06 -0.40731658+01  0.13828301+01
2   0.70199773+02  0.53925748+02  0.72432594+02  0.58671934+02  0.50379999+02  0.69210997+02  0.95298271+03  0.59256972+03
3   0.40239031+03  0.88505092+03  0.81276554+02  0.19342741+03  0.             0.             0.48366687+03  0.10784783+04
4   0.15756080+03 -0.30585326+01  0.37438995+01  0.36450325+05  0.84612821+05  0.             0.62771424+01  0.22492929+01
5   0.59500000+02  0.25500000+02  0.26292808+02  0.14163542+02  0.21994552+01 -0.11873223+03  0.71848053-01  0.16946216-00
6   0.86802221+01  0.19094902+02  0.15080000+03  0.50600000+02  0.76239999+02  0.15780000+03  0.78330114+00  0.69210997+02

             26.0000      1592.75      190.683     89.44318      1355.525       8.07734     -947.41  345.611       39.45
            279.4588  20911494.50    59459.325     88.52712    275342.574       1.40056      218.44    1.188     2014.72
             28.3075        20.72   327123.328     0.48000        1564.210       0.16802      292.88    1.178  1095685.20
 0.             0.14005610+01  0.12155660+04  0.57561770+05  0.24060280-01 -0.34985673-00 -0.93649395+00  0.88621314+02
 0.47999998-00  0.32500283-02  0.56960154+03 -0.37935134+05  0.90337557-02  0.93680296+00 -0.34974004-00  0.89482396+02
 0.             0.31027102-02  0.18815263+03  0.20911381+08  0.99966960+00 -0.45170428-04  0.25700275-01  0.14728786+01

CASE  1                          TRAJECTORY ID  -6 NOM                              SECTION  2                              PAGE   5
 0.59338746+00 -0.59338746+00  0.57970416+03  0.80097936-01  0.38479567-01  0.58037764+03  0.24548004+03  0.69145510+07
 0.75223478+04  0.30473374+05  0.10851027+03  0.24714223+03
1   0.67248701+02  0.22286623+01  0.12872232+04  0.27457719+03  0.67394716+05  0.15287025+06 -0.38928805+01  0.14005610+01
2   0.70023942+02  0.53906711+02  0.72277693+02  0.58668726+02  0.50379999+02  0.69202997+02  0.96588670+03  0.59727642+03
3   0.40232673+03  0.88489654+03  0.81403148+02  0.19317403+03  0.             0.             0.48372988+03  0.10780706+04
4   0.15125082+03 -0.29250164+01  0.35500327+01  0.35978679+05  0.83478747+05  0.             0.61929435+01  0.22487638+01
5   0.59500000+02  0.25500000+02  0.26350589+02  0.13991079+02  0.21994190+01 -0.11884747+03  0.71917778-01  0.16962596-00
6   0.86735705+01  0.19073451+02  0.14889999+03  0.50299999+02  0.75019999+02  0.15640000+03  0.74863089+00  0.69202997+02

             28.0000      2000.00      217.298     89.22346      1362.204       9.16422    -1213.99   50.029       50.66
            279.4588  20911901.75    59770.536     87.56719    272211.891       1.42334      129.34    0.504     1986.27
             28.3075        23.18   328893.547     0.48000        1569.307       0.19170      544.00    1.752  1236070.97
 0.             0.14233356+01  0.12180653+04  0.59995156+05  0.39747278-01 -0.34985673-00 -0.93595938+00  0.87722048+02
 0.47999998-00  0.46414474-02  0.57089715+03 -0.36794743+05  0.14892165-01  0.93680296+00 -0.34953959-00  0.89146710+02
 0.             0.23885233-02  0.21446215+03  0.20911783+08  0.99959869+00 -0.45170428-04  0.42445511-01  0.24328074+01
 0.84447030+00 -0.84447030+00  0.64411018+03  0.11828671-00  0.72645426-01  0.64507294+03  0.24565504+03  0.76891901+07
 0.11009070+05  0.48875343+05  0.11044084+03  0.24766591+03
1   0.76266713+02  0.22436481+01  0.12925287+04  0.27436838+03  0.66427564+05  0.15071153+06 -0.36965747+01  0.14233356+01
2   0.69851989+02  0.58273716+02  0.72132637+02  0.63056107+02  0.50379999+02  0.69194998+02  0.96879046+03  0.60198756+03
3   0.40153307+03  0.89099570+03  0.81533236+02  0.19283514+03  0.             0.             0.48306631+03  0.10838308+04
4   0.14438011+03 -0.27876022+01  0.32752045+01  0.35507718+05  0.82343876+05  0.             0.61088670+01  0.22481906+01
5   0.59500000+02  0.29799999+02  0.26408363+02  0.13793512+02  0.22189657+01 -0.89262582+02  0.54015306-01  0.12740898-00
6   0.86949674+01  0.19112907+02  0.14700000+03  0.50000000+02  0.73799999+02  0.15499999+03  0.71987977+00  0.69194998+02

             30.0000      2461.50      245.337     88.39683      1371.204      10.28498    -1523.95   73.738       63.76
            279.4588  20912363.25    60111.271     86.60723    269073.730       1.44245       75.45    0.190     1954.96
             28.3076        24.65   329538.332     0.48000        1568.789       0.21674      602.44    1.529  1380406.03
 0.             0.14424466+01  0.12220649+04  0.62435033+05  0.55423117-01 -0.34985673-00 -0.93516207+00  0.86822861+02
 0.47999998-00  0.50149411-02  0.57281736+03 -0.35651127+05  0.20746393-01  0.93680296+00 -0.34924102-00  0.88811233+02
 0.             0.19399078-02  0.24215001+03  0.20912240+08  0.99824730+00 -0.45170428-04  0.59179830-01  0.33927705+01
 0.11669808+01 -0.11669808+01  0.70850254+03  0.16223767-00  0.11239576-00  0.70983174+03  0.24587198+03  0.84674882+07
 0.15641914+05  0.75372672+05  0.11220570+03  0.24837586+03
1   0.76091821+02  0.22421571+01  0.12922474+04  0.27413197+03  0.65461364+05  0.14854439+06 -0.34783602+01  0.14424466+01
2   0.69633549+02  0.58226161+02  0.71936762+02  0.63025621+02  0.50379999+02  0.69186997+02  0.97169185+03  0.60671649+03
3   0.40145192+03  0.89079554+03  0.81676867+02  0.19245511+03  0.             0.             0.48312878+03  0.10832506+04
4   0.13674260+03 -0.26348521+01  0.29697042+01  0.35036539+05  0.81205011+05  0.             0.60247514+01  0.22475398+01
5   0.59500000+02  0.29799999+02  0.26466144+02  0.13576119+02  0.22189157+01 -0.89335719+02  0.54059564-01  0.12751337-00
6   0.86903822+01  0.19094182+02  0.14510000+03  0.49699999+02  0.72579999+02  0.15359999+03  0.66891543+00  0.69186997+02

             32.0000      2979.75      274.672     87.35308      1382.544      11.42439    -1877.29   81.636       78.75
            279.4589  20912881.50    60495.101     85.64725    265936.711       1.46230       48.75    0.061     1919.81
             28.3076        33.10   330262.355     0.48000        1568.229       0.24303      660.44    1.345  1524176.11
 0.             0.14622990+01  0.12275935+04  0.64884434+05  0.71083397-01 -0.34985673-00 -0.93410222+00  0.85923783+02
 0.47999998-00  0.53922749-02  0.57533211+03 -0.34503078+05  0.26594797-01  0.93680296+00 -0.34884440-00  0.88476050+02
 0.             0.17040505-02  0.27098908+03  0.20912752+08  0.99711568+00 -0.45170428-04  0.75895537-01  0.43527512+01
 0.15731163+01 -0.15731163+01  0.77285992+03  0.20396201-00  0.14961815-00  0.77463699+03  0.24611559+03  0.92478789+07
 0.21631360+05  0.11246053+06  0.11383172+03  0.24917105+03
1   0.75884216+02  0.22406877+01  0.12919292+04  0.27388975+03  0.64495058+05  0.14637849+06 -0.32665297+01  0.14622990+01
2   0.69389733+02  0.58162247+02  0.71716384+02  0.62979436+02  0.50379999+02  0.69178997+02  0.97459206+03  0.61143341+03
3   0.40136019+03  0.89056906+03  0.81814717+02  0.19207504+03  0.             0.             0.48317491+03  0.10826441+04
4   0.12932853+03 -0.24865708+01  0.26731416+01  0.34565585+05  0.80069279+05  0.             0.59406760+01  0.22468162+01
5   0.59500000+02  0.29799999+02  0.26523922+02  0.13331994+02  0.22188585+01 -0.89419404+02  0.54110204-01  0.12763282-00
6   0.86870179+01  0.19078542+02  0.14320000+03  0.49400000+02  0.71359999+02  0.15220000+03  0.62817881+00  0.69178997+02

             34.0000      3557.50      305.444     86.20218      1396.286      12.57772    -2278.83   85.254       95.89
            279.4590  20913459.25    60912.675     84.68726    262800.840       1.48280       98.60    0.155     1881.63
             28.3076        58.79   331048.473     0.48000        1567.633       0.27076      798.20    1.334  1674405.53
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CASE  1                          TRAJECTORY ID  -6 NOM                              SECTION  2                                PAGE   6
 0.              0.14827994+01  0.12346626+04  0.67346434+05  0.86723721-01 -0.34985673-00 -0.93278015+00  0.85024846+02
 0.47999998-00   0.62215075-02  0.57846136+03 -0.33349389+05  0.32435735-01  0.93680296+00 -0.34834985-00  0.88141242+02
 0.              0.21180850-02  0.30100895+03  0.20913325+08  0.99570414+00 -0.45170428-04  0.92590937-01  0.53127385+01
 0.20755700+01 -0.20755700+01  0.83715452+03  0.23831616-00  0.17921805-00  0.83946840+03  0.24638556+03  0.10030582+08
 0.29287745+05  0.16315530+06  0.11534059+03  0.25003364+03
1    0.75649839+02  0.22392202+01  0.12915814+04  0.27364131+03  0.63528671+05  0.14421383+06 -0.30574363+01  0.14827994+01
2    0.69125456+02  0.58084910+02  0.71476313+02  0.62920410+02  0.50379999+02  0.69170997+02  0.97749402+03  0.61614656+03
3    0.40126012+03  0.89032134+03  0.81949610+02  0.19169170+03  0.             0.             0.48320973+03  0.10820130+04
4    0.12201027+03 -0.23402054+01  0.23804109+01  0.34094356+05  0.78934707+05  0.             0.58565514+01  0.22460353+01
5    0.59500000+02  0.29799959+02  0.26581695+02  0.13066874+02  0.22187945+01 -0.89513027+02  0.54166857-01  0.12776645-00
6    0.86840654+01  0.19064023+02  0.14129999+03  0.49100000+02  0.70139999+02  0.15080000+03  0.58796854+00  0.69170997+02

                 36.0000       4196.75       337.679      84.99315      1412.479      13.73975    -2728.39    87.220       115.18
                279.4591   20914098.50     61370.492      83.72727    259666.145       1.50405      195.56     0.308      1839.76
                 28.3076        104.74    331909.473       0.48000      1567.077       0.29999      963.21     1.341   1823909.27
 0.              0.15040459+01  0.12432737+04  0.69824111+05  0.10233970-00 -0.34985673-00 -0.93119623+00  0.84126081+02
 0.47999998-00   0.72245048-02  0.58222934+03 -0.32188807+05  0.38257568-01  0.93680296+00 -0.34775751-00  0.87806894+02
 0.              0.29507122-02  0.33222839+03  0.20913957+08  0.99401308+00 -0.45170428-04  0.10926034-00  0.62727259+01
 0.26880530+01 -0.26880530+01  0.90135483+03  0.26330198-00  0.19920516-00  0.90430618+03  0.24668101+03  0.10815812+08
 0.38894888+05  0.23107217+06  0.11674713+03  0.25096384+03
1    0.75375360+02  0.22378051+01  0.12911933+04  0.27347375+03  0.62562214+05  0.14205042+06 -0.28474876+01  0.15040459+01
2    0.68835642+02  0.57987812+02  0.71211410+02  0.62842156+02  0.50379999+02  0.69162997+02  0.98039618+03  0.62085569+03
3    0.40115025+03  0.89004309+03  0.82099063+02  0.19137469+03  0.             0.             0.48324931+03  0.10814177+04
4    0.11389950+03 -0.21779900+01  0.21627387+01  0.33623096+05  0.77801114+05  0.             0.57724213+01  0.22451835+01
5    0.59500000+02  0.29799999+02  0.26639476+02  0.12776128+02  0.22187085+01 -0.89638729+02  0.54242922-01  0.12794588-00
6    0.86202176+01  0.18915914+02  0.13940000+03  0.48799999+02  0.68920000+02  0.14940000+03  0.54759377+00  0.69162997+02

                 38.0000       4900.25       371.444      83.75456      1431.176      14.90533    -3215.49    88.412       136.74
                279.4593   20914802.00     61865.565      82.76728    256532.541       1.52608      339.41     0.488      1794.51
                 28.3076        172.12    332842.105       0.48000      1566.523       0.33086     1155.27     1.355   1975423.52
 0.              0.15260825+01  0.12534427+04  0.72320566+05  0.11792695-00 -0.34985673-00 -0.92935088+00  0.83227523+02
 0.47999998-00   0.84076529-02  0.58665348+03 -0.31020035+05  0.44088657-01  0.93680296+00 -0.34706754-00  0.87473087+02
 0.              0.42176173-02  0.36466939+03  0.20914654+08  0.99204296+00 -0.45170428-04  0.12589908-00  0.72327228+01
 0.34231146+01 -0.34231146+01  0.96542795+03  0.27957571-00  0.21018648-00  0.96913063+03  0.24700111+03  0.11603783+08
 0.50791848+05  0.32045185+06  0.11806509+03  0.25196389+03
1    0.75088314+02  0.22363960+01  0.12907819+04  0.27333131+03  0.61595674+05  0.13988817+06 -0.26312706+01  0.15260825+01
2    0.68525231+02  0.57883713+02  0.70927196+02  0.62757879+02  0.50379999+02  0.69154999+02  0.98329777+03  0.62556659+03
3    0.40103039+03  0.88975154+03  0.82258179+02  0.19107313+03  0.             0.             0.48328857+03  0.10808247+04
4    0.10525082+03 -0.20050164+01  0.15681435+01  0.33151987+05  0.76667842+05  0.             0.56883182+01  0.22442693+01
5    0.59500000+02  0.29799999+02  0.26697242+02  0.12461880+02  0.22186445+01 -0.89732223+02  0.54299497-01  0.12807932-00
6    0.86808210+01  0.19040655+02  0.13750000+03  0.48500000+02  0.67699999+02  0.14799999+03  0.50601359+00  0.69154999+02

                 40.0000       5670.25       406.422      82.49866      1452.476      16.06847    -3756.52    89.246       160.23
                279.4596   20915572.00     62394.329      81.80728    253400.109       1.54880      309.68     0.363      1746.21
                 28.3076        263.96    333830.406       0.48000      1565.903       0.36295     1038.54     1.020   2122544.06
 0.              0.15488001+01  0.12652552+04  0.74838972+05  0.13348109-00 -0.34985673-00 -0.92724463+00  0.82329199+02
 0.47999998-00   0.78594422-02  0.59172336+03 -0.29841761+05  0.49897370-01  0.93680296+00 -0.34628014-00  0.87139904+02
 0.              0.39683747-02  0.39834461+03  0.20915417+08  0.98979435+00 -0.45170428-04  0.14250247-00  0.81927175+01
 0.42976427+01 -0.42976427+01  0.10293407+04  0.28979369-00  0.21462345-00  0.10339281+04  0.24734595+03  0.12394701+08
 0.65107188+05  0.43602565+06  0.11930513+03  0.25303259+03
1    0.74736702+02  0.22348645+01  0.12903124+04  0.27318022+03  0.60629058+05  0.13772717+06 -0.24140149+01  0.15488001+01
2    0.68193014+02  0.57761648+02  0.70621808+02  0.62656073+02  0.50379999+02  0.69144996+02  0.98619955+03  0.63026468+03
3    0.40090812+03  0.88940430+03  0.82417408+02  0.19076282+03  0.             0.             0.48332553+03  0.10801671+04
4    0.96560595+02 -0.18312119+01  0.17726134+01  0.32680833+05  0.75535524+05  0.             0.56042072+01  0.22432800+01
5    0.59500000+02  0.29799999+02  0.26769482+02  0.12126482+02  0.22184550+01 -0.90009427+02  0.54467243-01  0.12847499-00
6    0.86797962+01  0.19030190+02  0.13559999+03  0.48199999+02  0.66480000+02  0.14659999+03  0.46423364-00  0.69144996+02


CASE  1                          TRAJECTORY ID  -6 NOM                              SECTION  2                                PAGE   7

                 42.0000       6509.25       442.989      81.18199      1476.831      17.21635    -4346.76    89.978       185.78
                279.4600   20916411.00     62959.655      80.48728    250268.965       1.57230       56.54    -0.011      1694.63
                 28.3076        383.33    334886.379       0.66000      1565.242       0.39673      789.52     0.631   2267989.53
 0.              0.15723006+01  0.12791962+04  0.77382995+05  0.15480597-00 -0.34985673-00 -0.92392365+00  0.81094454+02
 0.65999998+00   0.64614665-02  0.59751426+03 -0.28652667+05  0.57861149-01  0.93680296+00 -0.34503879-00  0.86682948+02
 0.              0.16007024-02  0.43320279+03  0.20916248+08  0.98624895+00 -0.45170428-04  0.16526587-00  0.95127157+01
 0.53286512+01 -0.53286512+01  0.10930566+04  0.29868200-00  0.21707749-00  0.10986838+04  0.24771535+03  0.13188763+08
 0.82299156+05  0.58304239+06  0.12047576+03  0.25417535+03
1    0.74357180+02  0.22333135+01  0.12878114+04  0.27302022+03  0.59662378+05  0.13556752+06 -0.21958222+01  0.15723006+01
2    0.67838582+02  0.57625511+02  0.70295125+02  0.62540888+02  0.50379999+02  0.69134997+02  0.98910151+03  0.63495979+03
3    0.40077667+03  0.88903470+03  0.82576256+02  0.19044397+03  0.             0.             0.48335292+03  0.10794786+04
4    0.87832889+02 -0.16566578+01  0.15762399+01  0.32209660+05  0.74404243+05  0.             0.55200927+01  0.22422282+01
5    0.59500000+02  0.29799999+02  0.26841697+02  0.11768249+02  0.22182604+01 -0.90294086+02  0.54629498-01  0.12888130-00
6    0.86792449+01  0.19020800+02  0.13370000+03  0.47899999+02  0.65260000+02  0.14520000+03  0.42227351-00  0.69134997+02

                 44.0000       7419.50       481.860      79.78921      1504.564      18.33709    -5002.53    90.612       214.15
                279.4605   20917321.25     63558.536      79.16728    247139.184       1.59651      195.05     0.128      1640.01
                 28.3076        535.47    336004.262       0.66000      1564.538       0.43294      727.17     0.481   2415171.94
 0.              0.15965050+01  0.12955946+04  0.79957396+05  0.17604869-00 -0.34985673-00 -0.92011230+00  0.79860307+02
 0.65999998+00   0.61413136-02  0.60415884+03 -0.27451137+05  0.65794218-01  0.93680296+00 -0.34361432-00  0.86227543+02
 0.              0.28134283-02  0.46919049+03  0.20917150+08  0.98218310+00 -0.45170428-04  0.18794156-00  0.10832715+02
 0.65343356+01 -0.65343356+01  0.11565281+04  0.30745345-00  0.21904230-00  0.11633699+04  0.24810927+03  0.13986166+08
 0.10318589+06  0.76804808+06  0.12158402+03  0.25538686+03
1    0.73948598+02  0.22317728+01  0.12692794+04  0.27284912+03  0.58695654+05  0.13340929+06 -0.19744108+01  0.15965050+01
2    0.67463093+02  0.57474856+02  0.69948216+02  0.62411814+02  0.50379999+02  0.69124997+02  0.99200405+03  0.63965445+03
3    0.40063687+03  0.88864253+03  0.82728946+02  0.19012018+03  0.             0.             0.48336581+03  0.10787626+04
4    0.78976431+02 -0.14872053+01  0.13820875+01  0.31738390+05  0.73273394+05  0.             0.54359607+01  0.22411182+01
5    0.59500000+02  0.29799999+02  0.26913921+02  0.11388987+02  0.22180554+01 -0.90593826+02  0.54820880-01  0.12930913-00
6    0.86785383+01  0.19010992+02  0.13180000+03  0.47600000+02  0.64040000+02  0.14380000+03  0.37969439-00  0.69124997+02

                 46.0000       8403.50       522.314      78.35763      1535.605      19.42606    -5704.42    91.115       244.38
                279.4611   20918305.25     64188.323      77.84728    244010.861       1.62149      210.52     0.116      1582.61
                 28.3076        724.91    337179.633       0.66000      1563.782       0.47066     1012.24     0.610   2552618.19
 0.              0.16214930+01  0.13143667+04  0.82566951+05  0.19719797-00 -0.34985673-00 -0.91581260+00  0.78626846+02
 0.65999998+00   0.79369391-02  0.61169577+03 -0.26235451+05  0.73692368-01  0.93680296+00 -0.34203747-00  0.85773936+02
 0.              0.28847932-02  0.50631056+03  0.20918126+08  0.97758996+00 -0.45170428-04  0.21051750-00  0.12152714+02
 0.79341574+01 -0.79341574+01  0.12197074+04  0.31504972-00  0.21982980-00  0.12279566+04  0.24852676+03  0.14787089+08
 0.12764342+06  0.99855904+06  0.12263643+03  0.25666478+03
1    0.73517538+02  0.22305648+01  0.12887213+04  0.27265045+03  0.57728975+05  0.13125247+06 -0.17505072+01  0.16214930+01
2    0.67068505+02  0.57312772+02  0.69563134+02  0.62272009+02  0.50379999+02  0.69114996+02  0.99490688+03  0.64434747+03
3    0.40048914+03  0.88823220+03  0.82823180+02  0.18982727+03  0.             0.             0.48331231+03  0.10780594+04
4    0.70020290+02 -0.13752536+01  0.12253550+01  0.31267074+05  0.72143262+05  0.             0.53518210+01  0.22399546+01
5    0.59500000+02  0.29799999+02  0.26986144+02  0.10990371+02  0.22178490+01 -0.90895790+02  0.55003606-01  0.12974014-00
6    0.86779397+01  0.19001388+02  0.12989999+03  0.47300000+02  0.62820000+02  0.14240000+03  0.33663601-00  0.69114996+02

                 48.0000       9463.25       564.002      76.87754      1570.210      20.47266    -6433.98    91.414       275.59
                279.4618   20919365.00     64851.767      76.52728    240884.076       1.64736      -79.96    -0.150      1522.70
                 28.3076        957.17    338407.434       0.66000      1563.026       0.50935     1807.43     1.027   2673003.06
 0.              0.16473594+01  0.13357032+04  0.85216583+05  0.21824259-00 -0.34985673-00 -0.91102685+00  0.77394166+02
 0.65999998+00   0.12951680-01  0.62046248+03 -0.25003514+05  0.81551405-01  0.93680296+00 -0.34021911-00  0.85322252+02
 0.             -0.40701970-04  0.54450276+03  0.20919176+08  0.97248098+00 -0.45170428-04  0.23298171-00  0.13472714+02
 0.95386943+01 -0.95386943+01  0.12825446+04  0.32143040-00  0.22005296-00  0.12924047+04  0.24896782+03  0.15591709+08
 0.15543252+06  0.12809806+07  0.12363774+03  0.25799881+03
1    0.73071018+02  0.22296838+01  0.12881424+04  0.27247327+03  0.56762444+05  0.12909703+06 -0.16674687+01  0.16473594+01
2    0.66657106+02  0.57142532+02  0.69202277+02  0.62124834+02  0.50379999+02  0.69104999+02  0.99780859+03  0.64904220+03
3    0.40033402+03  0.68780846+03  0.82846127+02  0.18962714+03  0.             0.             0.48318014+03  0.10774355+04
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CASE  1                          TRAJECTORY ID  -6 NOM                          SECTION  2                              PAGE   8
4   0.66698747+02 -0.13337343+01  0.11672280+01  0.30783881+05  0.71013043+05  0.              0.52677154+01  0.22307433+01
5   0.59500000+02  0.29799999+02  0.27058357+02  0.10574302+02  0.22176498+01 -0.91187074+02  0.55179870-01  0.13015591-00
6   0.86778203+01  0.18992420+02  0.12800000+03  0.47000000+02  0.61600000+02  0.14100000+03  0.32066776-00  0.69104999+02

                 50.0000     10601.00      668.411     75.35221      1608.546      21.46899   -7083.06   91.569      309.60
                279.4627  20920502.75    65542.335     75.02728    237758.787       1.67453    -142.58   -0.189     1460.56
                 28.3076      1238.35   339678.496      0.75000      1562.246       0.55113    2286.44    1.166  2795939.78
0.                 0.16745301+01  0.13597926+04  0.87911586+05  0.24201573-00 -0.34985673-00 -0.93500171+00  0.75994459+02
0.74999999+00      0.16091058-01  0.63058769+03 -0.23752687+05  0.91429363-01  0.93680296+00 -0.33796775-00  0.84811691+02
0.                -0.82237069-03  0.58373135+03  0.20920304+08  0.96604896+00 -0.45170428-04  0.25835848-00  0.14972716+02
0.11336043+02 -0.11336043+02  0.13449855+04  0.32735959-00  0.22008514-00  0.13566489+04  0.24943139+03  0.16400188+08
0.18836498+06  0.16239438+07  0.12459248+03  0.25938316+03
1   0.72603202+02  0.22293589+01  0.12875339+04  0.27230188+03  0.55796265+05  0.12694274+06 -0.16417553+01  0.16745301+01
2   0.66232962+02  0.56974465+02  0.68810216+02  0.61980953+02  0.50379999+02  0.69092997+02  0.10007091+04  0.65372651+03
3   0.40017708+03  0.88735685+03  0.82840092+02  0.18946179+03  0.              0.              0.48301717+03  0.10768186+04
4   0.65670212+02 -0.13208776+01  0.11492287+01  0.30283406+05  0.69853862+05  0.              0.51836534+01  0.22374755+01
5   0.59500000+02  0.29799999+02  0.27145030+02  0.10142762+02  0.22173908+01 -0.91565792+02  0.55409043-01  0.13069647-00
6   0.86801856+01  0.18988685+02  0.12610000+03  0.46699999+02  0.60380000+02  0.13959999+03  0.31572217-00  0.69092997+02

                 52.0000     11818.75      655.483     73.80190      1650.562      22.40993   -8009.26   91.703      346.54
                279.4637  20921720.50    66253.234     73.52728    234635.137       1.70152      90.39   -0.021     1396.31
                 28.3075      1574.20   340987.695      0.75000      1561.401       0.59631    2399.55    1.082  2923972.91
0.                 0.17015223+01  0.13867451+04  0.93657648+05  0.26562300-00 -0.34985673-00 -0.89835633+00  0.74596026+02
0.74999999+00      0.16950810-01  0.64187413+03 -0.22480413+05  0.99245344-01  0.93680296+00 -0.33548476-00  0.84304282+02
0.                 0.13938705-02  0.62393177+03  0.20921512+08  0.95895487+00 -0.45170428-04  0.28355817-00  0.16472716+02
0.13379043+02 -0.13379043+02  0.14069750+04  0.33406441-00  0.22013450-00  0.14206881+04  0.24991667+03  0.17212642+08
0.22715133+06  0.20387059+07  0.12550429+03  0.26081722+03
1   0.72075335+02  0.22285020+01  0.12868812+04  0.27210993+03  0.54830363+05  0.12478981+06 -0.15462888+01  0.17015223+01
2   0.65788640+02  0.56777832+02  0.68397763+02  0.61808337+02  0.50379999+02  0.69080997+02  0.10036096+04  0.65840867+03
3   0.40001570+03  0.88686553+03  0.82668042+02  0.18924189+03  0.              0.              0.48288374+03  0.10761074+04
4   0.61851553+02 -0.12731443+01  0.10824021+01  0.29782814+05  0.68682113+05  0.              0.50995721+01  0.22361622+01
5   0.59500000+02  0.29799999+02  0.27231697+02  0.96966045+01  0.22170570+01 -0.92054041+02  0.55704497-01  0.13139337-00
6   0.86770254+01  0.18972899+02  0.12419999+03  0.46399995+02  0.59159999+02  0.13819999+03  0.29736324-00  0.69080997+02

                 54.0000     13118.50      703.731     72.23415      1696.286      23.28956   -9014.72   91.840      384.00
                279.4650  20923020.25    66983.117     72.02728    231513.197       1.72906     -96.70   -0.139     1330.35
                 28.3075      1971.30   342334.187      0.75000      1560.543       0.64295    2305.98    0.930  3036977.06
0.                 0.17290556+01  0.14166982+04  0.93460557+05  0.28904821-00 -0.34985673-00 -0.89109527+00  0.73199017+02
0.74999999+00      0.16516604-01  0.65429894+03 -0.21184434+05  0.10799330-00  0.93680296+00 -0.33277185-00  0.83800346+02
0.                -0.68723407-03  0.66501558+03  0.20922801+08  0.95120354+00 -0.45170428-04  0.30856352-00  0.17972720+02
0.15716212+02 -0.15716212+02  0.14684617+04  0.34198030-00  0.22037745-00  0.14845199+04  0.25342265+03  0.18029188+08
0.27023434+06  0.25355585+07  0.12637658+03  0.26229122+03
1   0.71540848+02  0.22276706+01  0.12862200+04  0.27191304+03  0.53864734+05  0.12263832+06 -0.14499464+01  0.17290556+01
2   0.65330780+02  0.56570882+02  0.67972416+02  0.61625908+02  0.50379999+02  0.69069997+02  0.10065090+04  0.66309322+03
3   0.39984664+03  0.88637334+03  0.82895614+02  0.18901742+03  0.              0.              0.48274226+03  0.10753907+04
4   0.57997856+02 -0.12249731+01  0.10149624+01  0.29282384+05  0.67511161+05  0.              0.50155178+01  0.22348224+01
5   0.59500000+02  0.29799959+02  0.27311142+02  0.92385627+01  0.22167633+01 -0.92483538+02  0.55964397-01  0.13200641-00
6   0.86721089+01  0.18953104+02  0.12230000+03  0.46100000+02  0.57940000+02  0.13680000+03  0.27883585-00  0.69069997+02

                 56.0000     14501.75      755.216     70.65288      1745.762      24.10260  -10214.61   91.986      423.96
                279.4664  20924403.75    67727.123     70.52728    228392.980       1.75669     170.97    0.012     1263.10
                 28.3075      2435.81   343707.074      0.75000      1559.666       0.69313    2246.39    0.794  3144990.75
0.                 0.17566933+01  0.14496089+04  0.96326563+05  0.31227533-00 -0.34985673-00 -0.88322348+00  0.71803594+02
0.74999999+00      0.16187949-01  0.66786860+03 -0.19862449+05  0.11666726-00  0.93680296+00 -0.32983087-00  0.83300199+02
0.                 0.17768515-02  0.70688737+03  0.20924173+08  0.94280031+00 -0.45170428-04  0.33335740-00  0.19472722+02
0.18392385+02 -0.18392385+02  0.15293927+04  0.35149613-00  0.22111392-00  0.15481366+04  0.25094831+03  0.18849934+08
0.32018401+06  0.31248789+07  0.12721195+03  0.26379608+03

CASE  1                          TRAJECTORY ID  -6 NOM                          SECTION  2                              PAGE   9
1   0.70985253+02  0.22268356+01  0.12855439+04  0.27171168+03  0.52899396+05  0.12048826+06 -0.13514784+01  0.17566933+01
2   0.64859913+02  0.56347055+02  0.67534184+02  0.61426709+02  0.50379999+02  0.69059997+02  0.10094069+04  0.66778067+03
3   0.39967176+03  0.88587218+03  0.82923511+02  0.18878817+03  0.              0.              0.48259528+03  0.10746603+04
4   0.54059138+02 -0.11757392+01  0.94603492+00  0.28782126+05  0.66340823+05  0.              0.49314924+01  0.22334621+01
5   0.59500000+02  0.29799999+02  0.27383365+02  0.87715597+01  0.22164792+01 -0.92899129+02  0.55215883-01  0.13259961-00
6   0.86631273+01  0.18924194+02  0.12040000+03  0.45800000+02  0.56720000+02  0.13540000+03  0.25989971-00  0.69059997+02

                 58.0000     15970.50      809.185     69.08793      1798.734      24.85247  -11620.56   92.132      465.35
                279.4681  20925872.50    68486.097     69.02727    225274.561       1.78434     491.80    0.153     1194.49
                 28.3074      2974.36   345104.520      0.75000      1558.753       0.74640    1975.97    0.599  3244442.06
0.                 0.17843437+01  0.14858744+04  0.99261737+05  0.33528843-00 -0.34985673-00 -0.87474637+00  0.70409922+02
0.74999999+00      0.14440519-01  0.68250147+03 -0.18512251+05  0.12526125-00  0.93680296+00 -0.32666384-00  0.82804154+02
0.                 0.46030640-02  0.74954207+03  0.20925628+08  0.93375092+00 -0.45170428-04  0.35792282-00  0.20972724+02
0.21476869+02 -0.21476869+02  0.15897228+04  0.36354353-00  0.22332501-00  0.16115632+04  0.25149246+03  0.19674954+08
0.37655680+06  0.38211533+07  0.12801323+03  0.26533391+03
1   0.70388322+02  0.22259475+01  0.12848378+04  0.27150563+03  0.51934355+05  0.11833970+06 -0.12516931+01  0.17843437+01
2   0.64374921+02  0.56103475+02  0.67081840+02  0.61207759+02  0.50379999+02  0.69049998+02  0.10123045+04  0.67246819+03
3   0.39949390+03  0.88534392+03  0.82951465+02  0.18855417+03  0.              0.              0.48244536+03  0.10738981+04
4   0.50067728+02 -0.11258466+01  0.87618524+00  0.28281847+05  0.65170807+05  0.              0.48474634+01  0.22320711+01
5   0.59500000+02  0.29799959+02  0.27455581+02  0.82950357+01  0.22161436+01 -0.93389907+02  0.56512866-01  0.13330012-00
6   0.86495412+01  0.18885035+02  0.11849999+03  0.45500000+02  0.55500000+02  0.13400000+03  0.24071024-00  0.69049998+02

                 60.0000     17526.00      865.393     67.53097      1855.273      25.53322  -13314.43   92.319      506.45
                279.4700  20927428.00    69248.795     67.52727    222158.031       1.81144     770.53    0.244     1125.48
                 28.3073      3593.58   346492.273      0.75000      1557.760       0.80208     843.19    0.165  3325885.75
0.                 0.18114361+01  0.15251916+04  0.10227225+06  0.35807173-00 -0.34985673-00 -0.86566977+00  0.69018178+02
0.74999999+00      0.69842093-02  0.69805112+03 -0.17131820+05  0.13376939-00  0.93680296+00 -0.32327294-00  0.82312532+02
0.                 0.68535873-02  0.79281396+03  0.20927171+08  0.92406159+00 -0.45170428-04  0.38224293-00  0.22472727+02
0.25047730+02 -0.25047730+02  0.16494111+04  0.37675327-00  0.22687793-00  0.16748376+04  0.25205391+03  0.20504283+08
0.43827476+06  0.46349227+07  0.12878246+03  0.26688370+03
1   0.69680628+02  0.22248077+01  0.12840532+04  0.27129696+03  0.50969601+05  0.11619275+06 -0.11514124+01  0.18114361+01
2   0.63879813+02  0.55834439+02  0.66618722+02  0.60962752+02  0.50379999+02  0.69035997+02  0.10152015+04  0.67714025+03
3   0.39932782+03  0.88472541+03  0.82980052+02  0.18831691+03  0.              0.              0.48230787+03  0.10730423+04
4   0.46056494+02 -0.10757061+01  0.80598865+00  0.27781526+05  0.64001218+05  0.              0.47634274+01  0.22306337+01
5   0.59500000+02  0.29799999+02  0.27556697+02  0.78158073+01  0.22155160+01 -0.94307651+02  0.57068219-01  0.13461006-00
6   0.86286452+01  0.18829773+02  0.11660000+03  0.45199999+02  0.54280000+02  0.13259999+03  0.22142545-00  0.69035997+02

                 62.0000     19169.25      924.455     66.00163      1914.798      26.14059  -18248.64   92.570      547.64
                279.4722  20929071.50    70012.722     66.02727    219043.785       1.82415    1430.04    0.421     1056.05
                 28.3073      4299.44   347808.762      0.75000      1556.382       0.86099      82.65   -0.074  3392238.66
0.                 0.18241537+01  0.15675294+04  0.10536452+06  0.38060963-00 -0.34985673-00 -0.85599988+00  0.67628549+02
0.74999999+00      0.29006475-02  0.71411482+03 -0.15719762+05  0.14218595-00  0.93680296+00 -0.31966047-00  0.81825645+02
0.                 0.12821054-01  0.83626847+03  0.20928800+08  0.91373896+00 -0.45170428-04  0.40630107-00  0.23972727+02
0.29644964+02 -0.29644964+02  0.17084204+04  0.39831959-00  0.23303676-00  0.17384637+04  0.25263172+03  0.21337846+08
0.50627130+06  0.55787759+07  0.12952146+03  0.26845647+03
1   0.68314929+02  0.22227823+01  0.12828942+04  0.27107816+03  0.50005113+05  0.11404781+06 -0.10716819+01  0.18241537+01
2   0.63306948+02  0.55263072+02  0.66600875+02  0.60402463+02  0.50379999+02  0.69021997+02  0.10180978+04  0.68180975+03
3   0.39918756+03  0.88370664+03  0.82959024+02  0.18808226+03  0.              0.              0.48218346+03  0.10717889+04
4   0.42867276+02 -0.10358409+01  0.75017734+00  0.27279964+05  0.62832734+05  0.              0.46791830+01  0.22291197+01
5   0.59500000+02  0.29799999+02  0.27657810+02  0.73336794+01  0.22137416+01 -0.96902844+02  0.58630643-01  0.13831431-00
6   0.85355540+01  0.18617903+02  0.11470000+03  0.44900000+02  0.53060000+02  0.13119999+03  0.20609268-00  0.69021997+02

                 64.0000     20900.00      984.663     64.50085      1976.805      26.66583  -24366.59   92.743      586.48
                279.4747  20930802.25    70771.907     64.52727    215932.410       1.83153    1851.50    0.505      986.95
                 28.3072      5097.98   349089.277      0.75000      1554.870       0.92158    1299.73    0.236  3436752.31
0.                 0.18315336+01  0.16123333+04  0.10854398+06  0.40288668-00 -0.34985673-00 -0.84574332+00  0.66241235+02
0.74999999+00      0.11473858-01  0.73140236+03 -0.14274491+05  0.15050486-00  0.93680296+00 -0.31582893-00  0.81343812+02
0.                 0.17327799-01  0.87931221+03  0.20930516+08  0.90279009+00 -0.45170428-04  0.43008074-00  0.25472728+02
```

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CASE  1                       TRAJECTORY ID  -6 NOM                         SECTION  2                          PAGE  10
 0.35875208+02 -0.35875208+02  0.17667216+04  0.41838416-00  0.24218917-00  0.18030152+04  0.25322407+03  0.22175545+08
 0.57748423+06  0.66624606+07  0.13023147+03  0.27002891+03
1   0.66711972+02  0.22204503+01  0.12816027+04  0.27085775+03  0.49040870+05  0.11190550+06 -0.10036868+01  0.18315396+01
2   0.62708576+02  0.54583069+02  0.65471215+02  0.59728777+02  0.50379999+02  0.69007997+02  0.10209933+04  0.68647504+03
3   0.39905800+03  0.88254470+03  0.83005144+02  0.18785261+03  0.             0.             0.48206314+03  0.10703973+04
4   0.40147474+02 -0.10018434+01  0.70258078+00  0.26778033+05  0.61665762+05  0.             0.45948766+01  0.22275858+01
5   0.59500000+02  0.29799999+02  0.27758919+02  0.68538274+01  0.22115476+01 -0.10011159+03  0.60580349-01  0.14289432-00
6   0.84156678+01  0.18348184+02  0.11279999+03  0.44599999+02  0.51840000+02  0.12980000+03  0.19301670-00  0.69007997+02

              66.0000    22716.75      1043.272     63.00542      2040.824      27.09105  -33368.99    92.839       621.62
             279.4775  20932619.00     71520.391    63.02727    212824.459       1.82512    1418.47     0.321       918.57
              28.3070      5994.26    350282.539     0.75000      1553.043       0.98331    1705.54     0.278   3475583.59
 0.             0.18251165+01  0.16595459+04  0.11181544+06  0.42488761-00 -0.34985673-00 -0.83490714+00  0.64856449+02
 0.74999999+00  0.13477276-01  0.75107289+03 -0.12793205+05  0.15872073-00  0.93680296+00 -0.31178093-00  0.80867346+02
 0.             0.12954764-01  0.92101004+03  0.20932317+08  0.83122250+00 -0.45170428-04  0.45356566-00  0.26972729+02
 0.44557565+02 -0.44557565+02  0.18242824+04  0.43714033-00  0.25170755-00  0.18692771+04  0.25382948+03  0.23017207+08
 0.64852115+06  0.78893854+07  0.13091340+03  0.27159717+03
1   0.64519496+02  0.22172578+01  0.12799816+04  0.27065169+03  0.48076834+05  0.10976641+06 -0.96231342+00  0.18251165+01
2   0.62048811+02  0.53633323+02  0.64803874+02  0.58772933+02  0.50379999+02  0.68993998+02  0.10238882+04  0.69113430+03
3   0.39895548+03  0.88102610+03  0.83018087+02  0.18763360+03  0.             0.             0.48197356+03  0.10686596+04
4   0.38492537+02 -0.96231342+00  0.67361939+00  0.26274956+05  0.60500745+05  0.             0.45103776+01  0.22260036+01
5   0.59500000+02  0.29799959+02  0.27860031+02  0.63789488+01  0.22083079+01 -0.10484960+03  0.63447450-01  0.14965712-00
6   0.82319692+01  0.17940677+02  0.11090000+03  0.44300000+02  0.50620000+02  0.12840000+03  0.18506027-00  0.68993998+02

              68.0000    24616.25      1105.331     61.51677      2106.379      27.41777  -42442.54    92.981       655.40
             279.4806  20934518.75     72258.095    61.52727    209720.203       1.81796    2019.36     0.467       851.18
              28.3069         1.15    351453.031     0.75000      1551.216       1.04873    -114.85    -0.197   3494607.47
 0.             0.18179604+01  0.17093146+04  0.11518390+06  0.44659734-00 -0.34985673-00 -0.82349876+00  0.63474417+02
 0.74999999+00 -0.14354589-02  0.76917691+03 -0.11273921+05  0.16682782-00  0.93680296+00 -0.30751926-00  0.80396566+02
 0.             0.19005851-01  0.96095891+03  0.20934199+08  0.87904410+00 -0.45170428-04  0.47673973-00  0.28472731+02
 0.56117426+02 -0.56117426+02  0.18610639+04  0.45956009-00  0.26165247-00  0.19376408+04  0.25444577+03  0.23862722+08
 0.72443713+06  0.92624540+07  0.13156766+03  0.27314713+03
1   0.62314893+02  0.22140878+01  0.12783589+04  0.27044694+03  0.47112978+05  0.10763082+06 -0.93025076+00  0.18179604+01
2   0.61393574+02  0.52678850+02  0.64140187+02  0.57811700+02  0.50379999+02  0.68979998+02  0.10267829+04  0.69578935+03
3   0.39885654+03  0.87950240+03  0.83023836+02  0.18742311+03  0.             0.             0.48188037+03  0.10669255+04
4   0.37210030+02 -0.93025076+00  0.65117553+00  0.25771836+05  0.59337319+05  0.             0.44258715+01  0.22244371+01
5   0.59500000+02  0.29799959+02  0.27961136+02  0.59109471+01  0.22050339+01 -0.10963786+03  0.66344962-01  0.15649164-00
6   0.80460594+01  0.17528898+02  0.10900000+03  0.44000000+02  0.49400000+02  0.12700000+03  0.17889438-00  0.68979998+02

              70.0000    26595.25      1166.417     60.04701      2173.580      27.66492  -47839.71    93.151       684.30
             279.4840  20936498.00     72982.655    60.02727    206619.361       1.82856    1909.52     0.415       785.32
              28.3067         1.33    352679.387     0.75000      1549.837       1.11542     592.06    -0.083   3500161.63
 0.             0.18285614+01  0.17615882+04  0.11865436+06  0.46800099-00 -0.34985673-00 -0.81152598+00  0.62095384+02
 0.74999999+00  0.26715647-02  0.78871606+03 -0.97162500+04  0.17482056-00  0.93680296+00 -0.30304682-00  0.79931781+02
 0.             0.19298382-01  0.99959125+03  0.20936160+08  0.86626326+00 -0.45170428-04  0.49958707-00  0.29972732+02
 0.70162089+02 -0.70162089+02  0.19370364+04  0.48542903-00  0.27301359-00  0.20076840+04  0.25507030+03  0.24712085+08
 0.79817370+06  0.10785304+08  0.13219509+03  0.27464882+03
1   0.60860337+02  0.22118669+01  0.12771612+04  0.27026603+03  0.46149310+05  0.10549847+06 -0.88136638+00  0.18285614+01
2   0.60831128+02  0.52081735+02  0.63590259+02  0.57223731+02  0.50379999+02  0.68963996+02  0.10296776+04  0.70043309+03
3   0.39873447+03  0.87642678+03  0.83049914+02  0.18721612+03  0.             0.             0.48178438+03  0.10656428+04
4   0.35254654+02 -0.88136638+00  0.61695646+00  0.25270350+05  0.58175302+05  0.             0.43416398+01  0.22229603+01
5   0.59500000+02  0.29799959+02  0.28076702+02  0.54536430+01  0.22030102+01 -0.11259738+03  0.68135854-01  0.15071592-00
6   0.79389546+01  0.17288113+02  0.10710000+03  0.43699999+02  0.48180000+02  0.12560000+03  0.16949353-00  0.68963996+02

              72.0000    28652.50      1228.709     58.58007      2243.723      27.84888  -49340.77    93.278       710.43
             279.4878  20938555.25     73692.103    58.52726    203520.684       1.85887    1536.66     0.288       721.21
              28.3065         1.53    353970.797     0.75000      1548.970       1.18579     711.43    -0.086   3499903.44


CASE  1                       TRAJECTORY ID  -6 NOM                         SECTION  2                          PAGE  11
 0.             0.18588664+01  0.18170085+04  0.12223235+06  0.48908390-00 -0.34985673-00 -0.79899703+00  0.60719611+02
 0.74999999+00  0.26151630-02  0.80970405+03 -0.81180517+04  0.18269350-00  0.93680296+00 -0.29836670-00  0.79473309+02
 0.             0.16122072-01  0.10376601+04  0.20938197+08  0.85288870+00 -0.45170428-04  0.52209201+00  0.31472734+02
 0.85442659+02 -0.85442659+02  0.19521682+04  0.50924261+00  0.28372955-00  0.20781201+04  0.25570071+03  0.25565410+08
 0.87290909+06  0.12456211+08  0.13279703+03  0.27609447+03
1   0.60249033+02  0.22107499+01  0.12764483+04  0.27011206+03  0.45185842+05  0.10336808+06 -0.81071638+00  0.18588664+01
2   0.60367032+02  0.51871004+02  0.63161946+02  0.57039820+02  0.50379999+02  0.68947998+02  0.10325722+04  0.70537496+03
3   0.35858083+03  0.87786748+03  0.83101134+02  0.18701093+03  0.             0.             0.48168197+03  0.10648784+04
4   0.32428655+02 -0.81071638+00  0.56750146+00  0.24770601+05  0.57014357+05  0.             0.42577000+01  0.22215980+01
5   0.59500000+02  0.29799959+02  0.28192249+02  0.50083973+01  0.22024559+01 -0.11340813+03  0.68626457-01  0.16187314-00
6   0.79144942+01  0.17226266+02  0.10520000+03  0.43400000+02  0.46960000+02  0.12419999+03  0.15590700-00  0.68947998+02

              74.0000    30787.50      1296.484     57.12024      2317.370      27.98167  -50348.84    93.401       739.36
             279.4919  20940690.50     74380.997    57.02726    200423.520       1.89230    1884.62     0.346       658.99
              28.3063         1.76    355237.426     0.75000      1548.195       1.26547     804.34    -0.081   3515904.03
 0.             0.16923029+01  0.16760850+04  0.12592487+06  0.50983162+00 -0.34985673-00 -0.73592048+00  0.59347384+02
 0.74999999+00  0.25984551-02  0.83194353+03 -0.64766079+04  0.19044123-00  0.93680296+00 -0.29348208-00  0.79021463+02
 0.             0.20879526-01  0.10762798+04  0.20940311+08  0.83892963+00 -0.45170428-04  0.54423912+00  0.32972736+02
 0.10131849+03 -0.10131849+03  0.20464247+04  0.53248575+00  0.29363155-00  0.21482756+04  0.25633556+03  0.26422697+08
 0.95856360+06  0.14284229+08  0.13337511+03  0.27749541+03
1   0.59771464+02  0.22098100+01  0.12758197+04  0.26996560+03  0.44222579+05  0.10123900+06 -0.73826010+00  0.18923029+01
2   0.59924734+02  0.51721638+02  0.62759129+02  0.56920078+02  0.50379999+02  0.68931997+02  0.10354666+04  0.70971610+03
3   0.39842641+03  0.87739331+03  0.83155143+02  0.18681046+03  0.             0.             0.48158155+03  0.10642038+04
4   0.29530404+02 -0.73626010+00  0.51678206+00  0.24271093+05  0.55854125+05  0.             0.41738005+01  0.22202811+01
5   0.59500000+02  0.29799999+02  0.28307811+02  0.45763072+01  0.22021193+01 -0.11390039+03  0.68924336-01  0.16257577-00
6   0.78980951+01  0.17181717+02  0.10330000+03  0.43099999+02  0.45740000+02  0.12280000+03  0.14197309-00  0.68931997+02

              76.0000    33001.75      1368.271     55.69825      2394.316      28.07987  -50578.59    93.531       763.85
             279.4965  20942905.00     75047.370    55.52726    197327.820       1.93049    2156.18     0.398       598.85
              28.3061         2.00    356483.055     0.75000      1547.553       1.34923    -479.36    -0.349   3499188.53
 0.             0.19304889+01  0.15384960+04  0.12973882+06  0.53022992+00 -0.34985673-00 -0.77230529+00  0.57979007+02
 0.74999999+00 -0.91938000-02  0.85514003+03 -0.47896196+04  0.19835843-00  0.93680296+00 -0.28839633-00  0.78576553+02
 0.             0.24552451-01  0.11152174+04  0.20942502+08  0.82439560+00 -0.45170428-04  0.55601324+00  0.34472736+02
 0.11766087+03 -0.11766087+03  0.20997854+04  0.55959618+00  0.30613804-00  0.22180057+04  0.25697308+03  0.27283849+08
 0.10451554+07  0.16289171+08  0.13393134+03  0.27884548+03
1   0.59493411+02  0.22091129+01  0.12753133+04  0.26982987+03  0.43259510+05  0.99111193+05 -0.65891778+00  0.19304889+01
2   0.59511793+02  0.51663604+02  0.62391277+02  0.56895917+02  0.50379999+02  0.68915997+02  0.10383595+04  0.71435659+03
3   0.39826877+03  0.87704459+03  0.83217295+02  0.18661258+03  0.             0.             0.48148607+03  0.10636571+04
4   0.26356711+02 -0.65891778+00  0.46124244-00  0.23772120+05  0.54694586+05  0.             0.40899910+01  0.22190195+01
5   0.59500000+02  0.29799999+02  0.28423362+02  0.41587126+01  0.22021153+01 -0.11392631+03  0.68927924-01  0.16258422-00
6   0.78556801+01  0.17167085+02  0.10140000+03  0.42800000+02  0.44520000+02  0.12140000+03  0.12671496-00  0.68915997+02

              78.0000    35295.25      1442.899     54.28376      2475.159      28.13154  -50329.97    93.667       786.96
             279.5015  20945196.25     75685.939    54.02726    194233.281       1.97265    2059.39     0.386       541.27
              28.3058         2.22    357691.074     0.75000      1547.014       1.44061     435.53    -0.149   3489497.88
 0.             0.19720513+01  0.20050353+04  0.13368169+06  0.55026482+00 -0.34985673-00 -0.75816081+00  0.56614816+02
 0.74999999+00 -0.19944675-02  0.87956791+03 -0.30552431+04  0.20553990-00  0.93680296+00 -0.28311292-00  0.78138892+02
 0.             0.22994055-01  0.11543855+04  0.20944772+08  0.80929658+00 -0.45170428-04  0.58739944+00  0.35972737+02
 0.13425112+03 -0.13425112+03  0.21522320+04  0.58396189+00  0.31548500-00  0.22870671+04  0.25761154+03  0.28148761+08
 0.11354982+07  0.18467123+08  0.13446700+03  0.28013678+03
1   0.59360202+02  0.22066103+01  0.12749005+04  0.26970316+03  0.42296630+05  0.96984351+05 -0.57848234+00  0.19720513+01
2   0.59124368+02  0.51671921+02  0.62052928+02  0.56941117+02  0.50379999+02  0.68899998+02  0.10412520+04  0.71899599+03
3   0.39811159+03  0.87678892+03  0.83281744+02  0.18642141+03  0.             0.             0.48139334+03  0.10632103+04
4   0.23139293+02 -0.57848234+00  0.40493763-00  0.23273356+05  0.53535849+05  0.             0.40062165+01  0.22178157+01
5   0.59500000+02  0.29799999+02  0.28538910+02  0.37588094+01  0.22023427+01 -0.11357375+03  0.68726682-01  0.16210955-00
6   0.79004631+01  0.17167813+02  0.99500000+02  0.42500000+02  0.43300000+02  0.12000000+03  0.11124660-00  0.68899998+02
```

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CASE  1                    TRAJECTORY ID  -6 NOM                          SECTION  2                     PAGE  12
                 80.0000      37669.25      1517.533     52.87425      2560.214      28.13653  -49078.19    93.749       803.11
                279.5069   20947572.75     76298.998     52.52726    191139.721       2.01995    1116.21     0.168       486.07
                 28.3055         2.52    358872.734      0.75000      1546.618       1.53580    1166.59    -0.002   3462980.59
 0.                  0.20199498+01  0.20756762+04  0.13776162+06  0.55992259+00 -0.34985673-00 -0.74349673+00  0.55295172+02
 0.74999999+00  0.64655752-02  0.90620013+03 -0.12698662+04  0.21288050-00  0.93680296+00 -0.27763549-00  0.77708780+02
 0.                  0.10004251-01  0.11937609+04  0.20947120+08  0.79364290+00 -0.45170428-04  0.60838307+00  0.37472738+02
 0.15087705+03 -0.15087705+03  0.22037372+04  0.59974571+00  0.32090521-00  0.23552140+04  0.25824925+03  0.29017313+08
 0.12187419+07  0.20822179+08  0.13498370+03  0.28136980+03
1   0.59455489+02  0.22083786+01  0.12746207+04  0.26958720+03  0.41333931+05  0.94858313+05 -0.49628824-00  0.20199498+01
2   0.58772714+02  0.51797593+02  0.61757834+02  0.57109290+02  0.50379999+02  0.68881997+02  0.10441446+04  0.72362739+03
3   0.35795492+03  0.87666577+03  0.83349833+02  0.18623737+03  0.              0.              0.48130475+03  0.10629031+04
4   0.19851530+02 -0.49628824-00  0.34740177-00  0.22774909+05  0.52378086+05  0.              0.39224953+01  0.22166621+01
5   0.59500000+02  0.29799999+02  0.26668922+02  0.33755087+01  0.22029006+01 -0.11275787+03  0.68232966-01  0.16094499-00
6   0.79232435+01  0.17207285+02  0.97600000+02  0.42200000+02  0.42080000+02  0.11860000+03  0.95440047-01  0.68881997+02

                 82.0000      40124.25      1599.352     51.47865      2649.690      28.10172  -47594.47    93.809       820.32
                279.5128   20950028.00     76888.849     51.20726    188046.850       2.07024    1611.42     0.275       433.53
                 28.3052         2.82    360008.617      0.66000      1546.251       1.64343     359.16    -0.146   3441959.16
 0.                  0.20702378+01  0.21506976+04  0.14198733+06  0.58689877+00 -0.34985673-00 -0.73017050+00  0.54062756+02
 0.65999998+00  0.59951280-02  0.93474974+03  0.57384814+03  0.21921971-00  0.93680296+00 -0.27265782-00  0.77336792+02
 0.                  0.11637172-01  0.12335325+04  0.20949547+08  0.77941737+00 -0.45170428-04  0.62650421+00  0.38792737+02
 0.16729084+03 -0.16729084+03  0.22542725+04  0.61066191+00  0.32441044-00  0.24221739+04  0.25888491+03  0.29889388+08
 0.13119878+07  0.23352859+08  0.13548255+03  0.28255255+03
1   0.59647067+02  0.22091848+01  0.12744071+04  0.26943409+03  0.40371481+05  0.92732713+05 -0.56436800+00  0.20702378+01
2   0.58441121+02  0.51967158+02  0.61485619+02  0.57323471+02  0.50379999+02  0.68863997+02  0.10470361+04  0.72826033+03
3   0.35780089+03  0.87660630+03  0.83268704+02  0.18616539+03  0.              0.              0.48106959+03  0.10627717+04
4   0.22574720+02 -0.56436800+00  0.39505760-00  0.22266914+05  0.51218847+05  0.              0.38388084+01  0.22155631+01
5   0.59500000+02  0.29795999+02  0.28798919+02  0.30106018+01  0.22036044+01 -0.11172845+03  0.67610041-01  0.15947566-00
6   0.79472466+01  0.17248834+02  0.95700000+02  0.41900000+02  0.40860000+02  0.11719999+03  0.10853231-00  0.68863997+02

                 84.0000      42661.50      1685.691     50.12171      2743.482      28.04180  -45421.98    93.875       828.79
                279.5193   20952565.25     77453.739     49.88726    184954.668       2.12558    1961.59     0.345       383.87
                 28.3048         3.17    361106.285      0.66000      1545.975       1.75521    -376.68    -0.269   3372323.59
 0.                  0.21255831+01  0.22295718+04  0.14636728+06  0.60356345+00 -0.34985673-00 -0.71645673+00  0.52874460+02
 0.65999998+00  0.17365549-02  0.96468012+03  0.24700610+04  0.22544257-00  0.93680296+00 -0.26753544-00  0.76971096+02
 0.                  0.14763776-01  0.12740930+04  0.20952055+08  0.76477817+00 -0.45170428-04  0.64429286+00  0.40112738+02
 0.18335027+03 -0.18335027+03  0.23038296+04  0.62081471+00  0.32870531-00  0.24878006+04  0.25951736+03  0.30764854+08
 0.13970877+07  0.26063251+08  0.13596479+03  0.28367850+03
1   0.60041312+02  0.22112436+01  0.12743209+04  0.26924364+03  0.39409735+05  0.90607095+05 -0.79190894+00  0.21255831+01
2   0.58141352+02  0.52229059+02  0.61251201+02  0.57634500+02  0.50379999+02  0.68845998+02  0.10499250+04  0.73289547+03
3   0.39764542+03  0.87667551+03  0.83029587+02  0.18621405+03  0.              0.              0.48067500+03  0.10628895+04
4   0.31676357+02 -0.79190894+00  0.55433625+00  0.21748482+05  0.50055918+05  0.              0.37552239+01  0.22145934+01
5   0.59500000+02  0.29795999+02  0.26928917+02  0.26657923+01  0.22046405+01 -0.11021315+03  0.66693086-01  0.15731278-00
6   0.79820408+01  0.17312799+02  0.93800001+02  0.41599999+02  0.39640000+02  0.11579999+03  0.15229018-00  0.68845998+02

                 86.0000      45283.00      1778.805     48.81046      2841.771      27.96308  -42864.11    93.951       831.34
                279.5262   20955187.75     77983.309     48.56726    181862.912       2.18443    2450.78     0.442       337.45
                 28.3044         3.54    362150.875      0.66000      1545.812       1.87496    -954.97    -0.362   3272692.34
 0.                  0.21844270+01  0.23136138+04  0.15091013+06  0.61990780+00 -0.34985673-00 -0.70236272+00  0.51690599+02
 0.65999998+00 -0.44105468-02  0.99591662+03  0.44304541+04  0.23154578-00  0.93680296+00 -0.26227108-00  0.76611934+02
 0.                  0.22556050-01  0.13156752+04  0.20954644+08  0.74973308+00 -0.45170428-04  0.66173956+00  0.41432738+02
 0.19884376+03 -0.19884376+03  0.23524106+04  0.63348679+00  0.33515453-00  0.25518879+04  0.26014514+03  0.31643563+08
 0.14787997+07  0.28937162+08  0.13643163+03  0.28472637+03
1   0.60576000+02  0.22134701+01  0.12743283+04  0.26907391+03  0.38448774+05  0.88481119+05 -0.10240054+01  0.21844270+01
2   0.57868377+02  0.52554888+02  0.61047707+02  0.58012566+02  0.50379999+02  0.68827997+02  0.10528122+04  0.73753320+03
3   0.39749216+03  0.87683617+03  0.82799277+02  0.18627463+03  0.              0.              0.48029144+03  0.10631138+04
CASE  1                    TRAJECTORY ID  -6 NOM                          SECTION  2                     PAGE  13
4   0.40960219+02 -0.10120027+01  0.71680383+00  0.21230385+05  0.48892949+05  0.              0.36716933+01  0.22135728+01
5   0.59500000+02  0.29795999+02  0.29058921+02  0.23434187+01  0.22058953+01 -0.10837796+03  0.65582563-01  0.15469334-00
6   0.80205449+01  0.17383907+02  0.91900000+02  0.41300000+02  0.38420000+02  0.11440000+03  0.19692414-00  0.68827997+02

                 88.0000      47991.75      1873.029     47.54680      2944.718      27.86854  -39879.86    94.044       824.28
                279.5337   20957896.50     78476.189     47.24726    178771.264       2.24719    2012.91     0.350       294.37
                 28.3039         3.96    363141.659      0.66000      1545.866       1.99894    -983.43    -0.361   3147321.00
 0.                  0.22471911+01  0.24016215+04  0.15562473+06  0.63592313+00 -0.34985673-00 -0.68789593+00  0.50511515+02
 0.65999998+00 -0.88028473-02  0.10283130+04  0.64544395+04  0.23752609-00  0.93680296+00 -0.25586751-00  0.76259425+02
 0.                  0.21180020-01  0.13583782+04  0.20957318+08  0.73429006+00 -0.45170428-04  0.67883503+00  0.42752738+02
 0.21361662+03 -0.21361662+03  0.24000258+04  0.65116856+00  0.34432316-00  0.26142935+04  0.26076627+03  0.32525325+08
 0.15439045+07  0.31963433+08  0.13688435+03  0.28567620+03
1   0.61264422+02  0.22154236+01  0.12744372+04  0.26901836+03  0.37488466+05  0.86354599+05 -0.12539411+01  0.22471911+01
2   0.57623652+02  0.52950544+02  0.60877093+02  0.58463944+02  0.50379999+02  0.68809998+02  0.10556976+04  0.74217679+03
3   0.39734073+03  0.87709653+03  0.82675522+02  0.18634284+03  0.              0.              0.48001625+03  0.10634393+04
4   0.50157645+02 -0.11269705+01  0.87775879+00  0.20712645+05  0.47729126+05  0.              0.35882205+01  0.22126843+01
5   0.59500000+02  0.29799999+02  0.29188911+02  0.20442034+01  0.22073921+01 -0.10618899+03  0.64257955-01  0.15156890-00
6   0.80634157+01  0.17463183+02  0.90000001+02  0.41000000+02  0.37200000+02  0.11300000+03  0.24114253-00  0.68809998+02

                 90.0000      50788.75      1978.052     46.31272      3052.840      27.74925  -36368.35    94.100       788.66
                279.5418   20960694.50     78921.414     45.92726    175679.381       2.31443    2193.81     0.408       255.58
                 28.3034         4.39    364055.559      0.66000      1546.030       2.09831    1466.38     0.101   2822092.34
 0.                  0.23144310+01  0.24947596+04  0.16052064+06  0.65160096+00 -0.34985673-00 -0.67306404+00  0.49337584+02
 0.65999998+00  0.15785086-01  0.10632232+04  0.85454248+04  0.24338034-00  0.93680296+00 -0.25132761-00  0.75913862+02
 0.                  0.26600194-01  0.14019134+04  0.20960078+08  0.71845733+00 -0.45170428-04  0.69557022+00  0.44072739+02
 0.22744410+03 -0.22744410+03  0.24466796+04  0.66507982+00  0.35267305-00  0.26747888+04  0.26137906+03  0.33409937+08
 0.15600104+07  0.35062832+08  0.13732371+03  0.28652414+03
1   0.62107011+02  0.22175151+01  0.12746456+04  0.26897487+03  0.36528695+05  0.84227309+05 -0.14775257+01  0.23144310+01
2   0.57414985+02  0.53429359+02  0.60747823+02  0.59002402+02  0.50379999+02  0.68789997+02  0.10585815+04  0.74682296+03
3   0.39719832+03  0.87744725+03  0.82557127+02  0.18641774+03  0.              0.              0.47975545+03  0.10638650+04
4   0.59101026+02 -0.12387628+01  0.10342679+01  0.20195238+05  0.46563896+05  0.              0.35048012+01  0.22118722+01
5   0.59500000+02  0.29799959+02  0.29333366+02  0.17748816+01  0.22090673+01 -0.10373894+03  0.62775360-01  0.14807182-00
6   0.81116224+01  0.17552415+02  0.88100000+02  0.40700000+02  0.35980000+02  0.11160000+03  0.28413957-00  0.68789997+02

                 92.0000      53676.75      2077.607     45.10436      3166.327      27.60325  -33029.59    94.088       751.36
                279.5505   20963582.75     79319.150     44.60726    172587.115       2.38236     849.18     0.119       221.06
                 28.3028         4.84    364881.207      0.66000      1546.245       2.20225    2434.74     0.315   2556532.34
 0.                  0.23823627+01  0.25924667+04  0.16560698+06  0.66693296+00 -0.34985673-00 -0.65787493+00  0.48169211+02
 0.65999998+00  0.23998296-01  0.11015960+04  0.10709766+05  0.24910542-00  0.93680296+00 -0.24565433-00  0.75575417+02
 0.                  0.11279069-01  0.14461084+04  0.20962927+08  0.70224328+00 -0.45170428-04  0.71193624+00  0.45392739+02
 0.24024956+03 -0.24024956+03  0.24923745+04  0.67266067+00  0.35858059-00  0.27332967+04  0.26198179+03  0.34297127+08
 0.15610314+07  0.38184576+08  0.13775067+03  0.28727610+03
1   0.62984133+02  0.22196538+01  0.12748925+04  0.26894288+03  0.35569435+05  0.82099122+05 -0.17056994+01  0.23823627+01
2   0.57227176+02  0.53923837+02  0.60640225+02  0.59557106+02  0.50379999+02  0.68769997+02  0.10614641+04  0.75147478+03
3   0.39706578+03  0.87782673+03  0.82437745+02  0.18650513+03  0.              0.              0.47950353+03  0.10643318+04
4   0.68227978+02 -0.13528497+01  0.11939896+01  0.19677871+05  0.45397934+05  0.              0.34213883+01  0.22111373+01
5   0.59500000+02  0.29799959+02  0.29477809+02  0.15351292+01  0.22107612+01 -0.10126161+03  0.61276255-01  0.14453579-00
6   0.81509879+01  0.17621297+02  0.86200000+02  0.40400000+02  0.34760000+02  0.11020000+03  0.32801913-00  0.68769997+02

                 94.0000      56656.25      2189.308     43.92054      3285.030      27.43035  -30265.13    94.125       717.93
                279.5599   20966563.00     79674.573     43.52726    169494.449       2.44855    1346.67     0.248       190.29
                 28.3022         5.33    365614.434      0.54000      1546.438       2.32023    -693.88    -0.306   2317502.34
 0.                  0.24485546+01  0.26958611+04  0.17089444+06  0.67921437+00 -0.34985673-00 -0.64518739+00  0.47217719+02
 0.53999998+00 -0.11103499-01  0.11408808+04  0.12952323+05  0.25369135-00  0.93680296+00 -0.24091543-00  0.75303943+02
 0.                  0.19780733-01  0.14906863+04  0.20965863+08  0.68869961+00 -0.45170428-04  0.72504594+00  0.46472740+02
 0.25217775+03 -0.25217775+03  0.25371050+04  0.68327233+00  0.36318588-00  0.27899660+04  0.26257320+03  0.35186626+08
 0.15717639+07  0.41316354+08  0.13816574+03  0.28794401+03
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CASE  1                       TRAJECTORY ID  -6 NOM                          SECTION  2                     PAGE  14
1   0.63781234+02  0.22216703+01  0.12751079+04  0.26892043+03  0.34610669+05  0.79970043+05 -0.19441937+01  0.24485546+01
2   0.57047953+02  0.54388270+02  0.60539161+02  0.60080141+02  0.50379999+02  0.68748997+02  0.10643458+04  0.75612894+03
3   0.39694906+03  0.87615885+03  0.82314230+02  0.18660620+03  0.             0.             0.47926329+03  0.10647650+04
4   0.77767749+02 -0.14720968+01  0.13609356+01  0.19160349+05  0.44231412+05  0.             0.33379506+01  0.22104530+01
5   0.59500000+02  0.29799959+02  0.29629474+02  0.13214861+01  0.22122487+01 -0.99086192+02  0.59959849-01  0.14143071-00
6   0.81731547+01  0.17651969+02  0.84300001+02  0.40099999+02  0.33540000+02  0.10879999+03  0.37378342-00  0.68748997+02

                 96.0000     59729.75      2315.389     42.80476      3408.528      27.25971  -27194.86    94.209      677.71
                279.5700  20969637.00     79990.088     42.44726    166401.338       2.51837    2327.08     0.513      163.14
                 28.3016         5.88    366282.574      0.54000      1546.704       2.43469   -1174.38    -0.411  2041238.45
 0.                0.25183748+01  0.28040940+04  0.17639365+06  0.69125447+00 -0.34985673-00 -0.63227060+00  0.46270507+02
 0.53999998+00 -0.14511533-01  0.11804121+04  0.15273351+05  0.25818716-00  0.93680296+00 -0.23609093-00  0.75037477+02
 0.                0.33742131-01  0.15367967+04  0.20968690+08  0.67491124+00 -0.45170429-04  0.73789804+00  0.47552742+02
 0.26320557+03 -0.26320557+03  0.25806931+04  0.70541502+00  0.37462282-00  0.28448041+04  0.26315208+03  0.36078196+08
 0.15691549+07  0.44468960+08  0.13856974+03  0.28852951+03
1   0.64698101+02  0.22241575+01  0.12754031+04  0.26889042+03  0.33652420+05  0.77840001+05 -0.21827810+01  0.25183748+01
2   0.56895362+02  0.54913229+02  0.60469011+02  0.60666880+02  0.50379999+02  0.68726997+02  0.10672259+04  0.76078662+03
3   0.39683841+03  0.67856480+03  0.82137446+02  0.18675297+03  0.             0.             0.47897585+03  0.10653178+04
4   0.87311244+02 -0.16462249+01  0.15645029+01  0.18643107+05  0.43064086+05  0.             0.32545579+01  0.22098356+01
5   0.59500000+02  0.29799999+02  0.29788364+02  0.11329260+01  0.22138893+01 -0.96686875+02  0.58507955-01  0.13800605-00
6   0.81961566+01  0.17682978+02  0.82400003+02  0.39800000+02  0.32319999+02  0.10740000+03  0.41976560-00  0.68726997+02

                 98.0000     62900.75      2449.064     41.74972      3537.056      27.08914  -24359.32    94.291      640.05
                279.5808  20972808.75     80264.962     41.36726    163307.635       2.58869    3008.55     0.724      139.63
                 28.3009         6.45    366873.453      0.54000      1546.998       2.55766   -1489.37    -0.488  1801836.81
 0.                0.25886873+01  0.29165226+04  0.18211387+06  0.70304897+00 -0.34985673-00 -0.61912918+00  0.45327862+02
 0.53999998+00 -0.17031646-01  0.12214860+04  0.17674987+05  0.26255123-00  0.93680296+00 -0.23118255-00  0.74776126+02
 0.                0.44332939-01  0.15843929+04  0.20972011+08  0.66088308+00 -0.45170428-04  0.75048796+00  0.48632743+02
 0.27326520+03 -0.27326520+03  0.26237756+04  0.73373003+00  0.39315176-00  0.28977745+04  0.26371747+03  0.36971612+08
 0.15675264+07  0.47602209+08  0.13896346+03  0.28903314+03
1   0.65530622+02  0.22267928+01  0.12757235+04  0.26886423+03  0.32694770+05  0.75708765+05 -0.24285170+01  0.25886873+01
2   0.56758153+02  0.55444966+02  0.60414827+02  0.61260798+02  0.50379999+02  0.68704998+02  0.10701042+04  0.76544861+03
3   0.39673657+03  0.87898695+03  0.81939256+02  0.18692497+03  0.             0.             0.47867583+03  0.10659119+04
4   0.97140634+02 -0.18428136+01  0.17856653+01  0.18126018+05  0.41896433+05  0.             0.31711898+01  0.22092824+01
5   0.59500000+02  0.29799999+02  0.29947242+02  0.96967783+00  0.22155224+01 -0.94298410+02  0.57062628-01  0.13459688-00
6   0.82092191+01  0.17691027+02  0.86500001+02  0.39500000+02  0.31100000+02  0.10600000+03  0.46702252-00  0.68704998+02

                100.0000     66171.75      2582.663     40.74246      3670.735      26.91194  -21672.38    94.356      600.84
                279.5924  20976381.00     80506.379     40.28725    160213.328       2.66029    2932.58     0.746      119.14
                 28.3001         7.08    367403.066      0.54000      1547.333       2.68278    -974.85    -0.378  1589553.09
 0.                0.26602878+01  0.30344527+04  0.18806442+06  0.71459367+00 -0.34985673-00 -0.60576779+00  0.44390091+02
 0.53999998+00 -0.97535249-02  0.12646701+04  0.20160728+05  0.26690290-00  0.93680296+00 -0.22619203-00  0.74519999+02
 0.                0.43968631-01  0.16330948+04  0.20975228+08  0.64662011+00 -0.45170428-04  0.76281124+00  0.49712745+02
 0.28243703+03 -0.28243703+03  0.26657835+04  0.76189345+00  0.41461706-00  0.29489824+04  0.26426864+03  0.37866657+08
 0.15517797+07  0.50735877+08  0.13934749+03  0.28946924+03
1   0.66597977+02  0.22295073+01  0.12760764+04  0.26884618+03  0.31737716+05  0.73576336+05 -0.26810753+01  0.26602878+01
2   0.56634436+02  0.55691941+02  0.60375654+02  0.61871062+02  0.50379999+02  0.68682998+02  0.10729808+04  0.77011484+03
3   0.39664067+03  0.87943585+03  0.81736533+02  0.18710964+03  0.             0.             0.47837719+03  0.10655455+04
4   0.10724301+03 -0.20448602+01  0.20129678+01  0.17609131+05  0.40728468+05  0.             0.30878545+01  0.22087837+01
5   0.59500000+02  0.29799959+02  0.30106140+02  0.82734210+00  0.22171906+01 -0.91858645+02  0.55586257-01  0.13111448-00
6   0.82145820+01  0.17661120+02  0.78600001+02  0.39200000+02  0.29880000+02  0.10460000+03  0.51559142+00  0.68682998+02

                102.0000     69545.25      2727.043     39.76127      3809.877      26.71580  -19191.37    94.419      562.23
                279.6047  20979455.00     80716.765     39.20725    157118.291       2.73282    3003.08     0.816      101.42
                 28.2993         7.72    367874.336      0.54000      1547.696       2.81302    -881.44    -0.363  1392473.77
 0.                0.27328181+01  0.31574954+04  0.19425549+06  0.72588448+00 -0.34985673-00 -0.59219116+00  0.43457524+02
 0.53999998+00 -0.74381285-02  0.13097979+04  0.22734872+05  0.27111795-00  0.93680296+00 -0.22112115-00  0.74269198+02
 0.                0.45803577-01  0.16822058+04  0.20978544+08  0.63212740+00 -0.45170428-04  0.77486349+00  0.50792747+02

CASE  1                       TRAJECTORY ID  -6 NOM                          SECTION  2                     PAGE  15
 0.29071330+03 -0.29071330+03  0.27069342+04  0.78408162+00  0.43100405-00  0.29984315+04  0.26480515+03  0.38763161+08
 0.15332230+07  0.53811467+08  0.13972238+03  0.28984170+03
1   0.67581909+02  0.22322582+01  0.12764508+04  0.26883501+03  0.30781257+05  0.71442577+05 -0.29373589+01  0.27328181+01
2   0.56521101+02  0.56545729+02  0.60347962+02  0.62488932+02  0.50379999+02  0.68660997+02  0.10758556+04  0.77478699+03
3   0.39655078+03  0.87989999+03  0.81531618+02  0.18730339+03  0.             0.             0.47808240+03  0.10672034+04
4   0.11749435+03 -0.22496871+01  0.22436230+01  0.17092434+05  0.39559779+05  0.             0.30045497+01  0.22083332+01
5   0.59500000+02  0.29799959+02  0.30265033+02  0.70427250+00  0.22188643+01 -0.89410775+02  0.54104981-01  0.12762050-00
6   0.82108889+01  0.17650029+02  0.76700000+02  0.38900000+02  0.28660000+02  0.10320000+03  0.56487673+00  0.68660997+02

                104.0000     73021.50      2849.951     38.80246      3954.592      26.49927  -16748.48    94.435      511.95
                279.6178  20982932.25     80897.223     38.12725    154022.457       2.80766    1516.56     0.413       85.06
                 28.2984         6.42    368307.094      0.54000      1548.205       2.91370    1556.52     0.304  1195164.64
 0.                0.28076604+01  0.32855909+04  0.20069765+06  0.73691739+00 -0.34985673-00 -0.57840414+00  0.42530517+02
 0.53999998+00  0.24179693-01  0.13585333+04  0.25402456+05  0.27523757-00  0.93680296+00 -0.21597172-00  0.74023827+02
 0.                0.24257480-01  0.17314946+04  0.20981958+08  0.61741069+00 -0.45170428-04  0.78664044+00  0.51872749+02
 0.29814731+03 -0.29814731+03  0.27472384+04  0.79560730+00  0.44119120-00  0.30461813+04  0.26532647+03  0.39660953+08
 0.14590262+07  0.56816673+08  0.14008838+03  0.29014374+03
1   0.68679594+02  0.22348449+01  0.12768982+04  0.26889666+03  0.29825313+05  0.69307505+05 -0.31228989+01  0.28076604+01
2   0.56419416+02  0.57158186+02  0.60334647+02  0.63167460+02  0.50379999+02  0.68637998+02  0.10787287+04  0.77946407+03
3   0.39646095+03  0.88043731+03  0.81396558+02  0.18750010+03  0.             0.             0.47785750+03  0.10679374+04
4   0.12430146+03 -0.23860292+01  0.24720585+01  0.16580309+05  0.38393031+05  0.             0.29212790+01  0.22079196+01
5   0.59500000+02  0.29833478+02  0.30431140+02  0.59766250+00  0.22207233+01 -0.86692147+02  0.52459863-01  0.12374007-00
6   0.82019576+01  0.17605717+02  0.74800001+02  0.38599999+02  0.27440000+02  0.10179999+03  0.60055750+00  0.68637998+02

                106.0000     76600.75      2987.844     37.84686      4105.149      26.25095  -14649.69    94.452      471.72
                279.6318  20986512.50     81053.050     37.04725    150925.187       2.88323     747.59     0.179       72.92
                 28.2974         9.15    368750.590      0.54000      1549.059       3.03865    -655.14    -0.327  1041377.25
 0.                0.28832283+01  0.34199969+04  0.20740214+06  0.74768848+00 -0.34985673-00 -0.56441161+00  0.41609458+02
 0.53999998+00 -0.21547712-02  0.14096253+04  0.28170533+05  0.27925939-00  0.93680296+00 -0.21074554-00  0.73783992+02
 0.                0.13014229-01  0.17601196+04  0.20985469+08  0.60247344+00 -0.45170428-04  0.79813789+00  0.52952749+02
 0.30476105+03 -0.30476105+03  0.27866930+04  0.79901718+00  0.44338846-00  0.30922531+04  0.26583188+03  0.40559968+08
 0.14094316+07  0.59681316+08  0.14044574+03  0.29037199+03
1   0.70244908+02  0.22384103+01  0.12776338+04  0.26901487+03  0.28869861+05  0.67170509+05 -0.33288696+01  0.28832283+01
2   0.56322871+02  0.57999290+02  0.60327333+02  0.64075199+02  0.50379999+02  0.68613997+02  0.10816005+04  0.78414540+03
3   0.39634082+03  0.88129295+03  0.81254192+02  0.18776067+03  0.             0.             0.47759502+03  0.10690536+04
4   0.13151043+03 -0.25302087+01  0.27604174+01  0.16068947+05  0.37226902+05  0.             0.28380296+01  0.22075342+01
5   0.59500000+02  0.30098078+02  0.30604476+02  0.50639810+00  0.22235563+01 -0.82548740+02  0.49952570-01  0.11782598-00
6   0.81826875+01  0.17537314+02  0.72900000+02  0.38300000+02  0.26220000+02  0.10040000+03  0.64016724+00  0.68613997+02

                108.0000     80282.50      3145.434     36.91274      4261.327      25.98493  -12840.52    94.496      442.45
                279.6467  20990195.25     81189.263     35.96725    147826.244       2.95955     578.71     0.132       61.48
                 28.2964         9.94    369152.461      0.54000      1549.896       3.20499   -1015.15    -0.446   930749.96
 0.                0.29595540+01  0.35606380+04  0.21438181+06  0.75819392+00 -0.34985673-00 -0.55021855+00  0.40694764+02
 0.53999998+00 -0.57452927-02  0.14616383+04  0.31041669+05  0.28318200-00  0.93680296+00 -0.20564448-00  0.73549791+02
 0.                0.10816123-01  0.18286048+04  0.20989078+08  0.58732273+00 -0.45170428-04  0.80935176+00  0.54032749+02
 0.31068044+03 -0.31068044+03  0.28252989+04  0.80208655+00  0.44363356-00  0.31367814+04  0.26632161+03  0.41460118+08
 0.13916968+07  0.62485541+08  0.14079466+03  0.29056238+03
1   0.71775246+02  0.22416649+01  0.12783551+04  0.26913083+03  0.27914923+05  0.65031321+05 -0.35268643+01  0.29595540+01
2   0.56227858+02  0.58822574+02  0.60322443+02  0.64965750+02  0.50379999+02  0.68589998+02  0.10844707+04  0.78883673+03
3   0.39622658+03  0.88212857+03  0.81117777+02  0.18801305+03  0.             0.             0.47734436+03  0.10701416+04
4   0.13844024+03 -0.26686049+01  0.30376099+01  0.15557739+05  0.36063121+05  0.             0.27548052+01  0.22071750+01
5   0.59500000+02  0.30359856+02  0.30777805+02  0.42694835-00  0.22263076+01 -0.78525063+02  0.47517730-01  0.11208278-00
6   0.81529935+01  0.17444158+02  0.71000001+02  0.38000000+02  0.25000000+02  0.99000001+02  0.67824314+00  0.68589998+02

                110.0000     84067.50      3309.790     36.02421      4422.991      25.72016  -11168.23    94.529      410.89
                279.6626  20993981.25     81307.943     35.30725    144725.625       3.03781    1373.10     0.460       51.57
                 28.2953        10.78    369517.070      0.33000      1550.731       3.37194      -8.70    -0.120   821090.37
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CASE  1                       TRAJECTORY ID  -6 NOM                           SECTION  2                                    PAGE  16
 0.                0.30378110+01  0.37062991+04  0.22164804+06  0.76448154+00 -0.34985673-00 -0.54144846+00  0.40159110+02
 0.32999999-00     0.83144001-02  0.15163583+04  0.34019436+05  0.28552970-00  0.93680296+00 -0.20216890-00  0.73409486+02
 0.                0.23653241-01  0.18779920+04  0.20992784+08  0.57796089+00 -0.45170428-04  0.81606339+00  0.54692749+02
 0.31595834+03 -0.31595834+03  0.28630742+04  0.89544850+00  0.44537210-00  0.31798379+04  0.26679583+03  0.42361288+08
 0.13599617+07  0.65241030+08  0.14113545+03  0.29971677+03
1   0.73310910+02  0.22452339+01  0.12790728+04  0.26924860+03  0.26960472+05  0.62889976+05 -0.37228246+01  0.30378110+01
2   0.56136350+02  0.59673229+02  0.60323340+02  0.65885186+02  0.50379999+02  0.68561997+02  0.10873400+04  0.79352772+03
3   0.39612231+03  0.88295048+03  0.80983936+02  0.18826466+03  0.             0.              0.47710624+03  0.10712151+04
4   0.14529886+03 -0.28059772+01  0.33119544+01  0.15046625+05  0.34896165+05  0.              0.26715962+01  0.22068102+01
5   0.59500000+02  0.30621886+02  0.30980030+02  0.35814287-00  0.22289696+01 -0.74631839+02  0.45161831-01  0.10652579-00
6   0.81158029+01  0.17332696+02  0.69100001+02  0.37700000+02  0.23780000+02  0.97600001+02  0.71592782+00  0.68561997+02

               112.0000      87959.50      3475.690      35.19454      4590.078      25.46870   -9789.26    94.547      372.77
               279.6794   20957874.25      81409.830      34.64725    141623.320       3.11711    1728.89     0.665       43.14
                28.2941         11.69    369845.816       0.33000      1551.560       3.51217      40.65    -0.097   700105.09
 0.                0.31171089+01  0.38564887+04  0.22921002+06  0.77066773+00 -0.34985673-00 -0.53260653+00  0.39586110+02
 0.32999999-00     0.97575654-02  0.15732286+04  0.37108701+05  0.28783953-00  0.93680296+00 -0.19886649-00  0.73271344+02
 0.                0.30041084-01  0.19290566+04  0.20996591+08  0.56852237+00 -0.45170428-04  0.82266673+00  0.55352748+02
 0.32064492+03 -0.32064492+03  0.29006603+04  0.81431324+00  0.45367002-00  0.32215196+04  0.26725477+03  0.43263373+08
 0.12956434+07  0.67898849+08  0.14146867+03  0.29083863+03
1   0.74819807+02  0.22485670+01  0.12797798+04  0.26937032+03  0.26006494+05  0.60746469+05 -0.39204169+01  0.31171089+01
2   0.56045089+02  0.60509653+02  0.60325737+02  0.66791286+02  0.50379999+02  0.68533997+02  0.10902081+04  0.79822602+03
3   0.39602260+03  0.98375727+03  0.80849256+02  0.18852107+03  0.             0.              0.47687185+03  0.10722783+04
4   0.15221459+03 -0.29442918+01  0.35685837+01  0.14535599+05  0.33728360+05  0.              0.25884015+01  0.22064678+01
5   0.59500000+02  0.30882639+02  0.31182254+02  0.29961572-00  0.22315691+01 -0.70830102+02  0.42861293-01  0.10109937-00
6   0.80683839+01  0.17197161+02  0.67200001+02  0.37400000+02  0.22560000+02  0.96200000+02  0.75392634+00  0.68533997+02

               114.0000      91961.25      3639.024      34.41025      4762.740      25.22330   -8406.36    94.575      337.71
               279.6972   21001877.25      81497.617      33.98725    138519.432       3.19981    1711.06     0.730       35.96
                28.2929         12.62    370153.754       0.33000      1552.321       3.66094    -796.40    -0.435   601197.67
 0.                0.31998093+01  0.40119506+04  0.23707752+06  0.77675166+00 -0.34985673-00 -0.52369392+00  0.39035884+02
 0.32999999-00 -0.97573517-03  0.16316397+04  0.40313350+05  0.29011116-00  0.93680296+00 -0.19553770-00  0.73135388+02
 0.                0.30621981-01  0.19813377+04  0.21000502+08  0.55900841+00 -0.45170428-04  0.82916392+00  0.56012748+02
 0.32482450+03 -0.32482450+03  0.29362969+04  0.83089715+00  0.46923018-00  0.32619523+04  0.26769887+03  0.44166280+08
 0.12289459+07  0.70421980+08  0.14179470+03  0.29095122+03
1   0.76376963+02  0.22518077+01  0.12805200+04  0.26939393+03  0.25052988+05  0.58600906+05 -0.41100252+01  0.31998093+01
2   0.55958407+02  0.61358787+02  0.60336662+02  0.67713059+02  0.50379999+02  0.68506998+02  0.10930749+04  0.80293566+03
3   0.39592117+03  0.88459693+03  0.80709422+02  0.18868151+03  0.             0.              0.47663059+03  0.10732804+04
4   0.15885086+03 -0.30860202+01  0.37660151+01  0.14024800+05  0.32559195+05  0.              0.25052436+01  0.22061577+01
5   0.59500000+02  0.31127494+02  0.31377250+02  0.24975615-00  0.22342677+01 -0.66883487+02  0.40473084-01  0.95466173-01
6   0.80162584+01  0.17046802+02  0.65300001+02  0.37100000+02  0.21340000+02  0.94800001+02  0.79038947+00  0.68506998+02

               116.0000      96076.25      3824.434      33.66779      4941.185      24.98366   -7213.64    94.610      309.26
               279.7160   21005994.00      81572.605      33.32725    135414.096       3.28464    1948.21     0.921       29.89
                28.2916         13.63    370438.785       0.33000      1553.023       3.84246    -800.98    -0.461   522605.71
 0.                0.32846372+01  0.41728967+04  0.24526148+06  0.78273252+00 -0.34985673-00 -0.51471182+00  0.38488551+02
 0.32999999-00 -0.54022586-03  0.16916171+04  0.43636274+05  0.29234430-00  0.93680296+00 -0.19218296-00  0.73001641+02
 0.                0.35321614-01  0.20346646+04  0.21004517+08  0.54942027+00 -0.45170428-04  0.83554509+00  0.56672748+02
 0.32849529+03 -0.32849529+03  0.29718165+04  0.85583612+00  0.49267530-00  0.33011676+04  0.26812883+03  0.45069942+08
 0.11827344+07  0.72827968+08  0.14211398+03  0.29105131+03
1   0.77938876+02  0.22549310+01  0.12812685+04  0.26934414+03  0.24099968+05  0.56453410+05 -0.42902023+01  0.32846372+01
2   0.55871397+02  0.62201000+02  0.60349817+02  0.68629831+02  0.50379999+02  0.68480998+02  0.10959402+04  0.80765713+03
3   0.39581957+03  0.88544901+03  0.80569245+02  0.18877489+03  0.             0.              0.47638882+03  0.10742239+04
4   0.16515708+03 -0.32321618+01  0.36741213+01  0.13514176+05  0.31388504+05  0.              0.24221145+01  0.22058731+01
5   0.59500000+02  0.31357458+02  0.31565025+02  0.20756638-00  0.22369898+01 -0.62902350+02  0.38063986-01  0.89783696-01
6   0.79557316+01  0.16879551+02  0.63400000+02  0.36800000+02  0.20120001+02  0.93400000+02  0.82503892+00  0.68480998+02

CASE  1                       TRAJECTORY ID  -6 NOM                           SECTION  2                                    PAGE  17

               118.0000     100307.25      4010.410      32.96358      5125.593      24.74904   -6116.25    94.635      276.48
               279.7359   21010226.50      81636.664      32.66725    132307.344       3.37255    1905.79     1.012       24.77
                28.2901         14.68    370706.395       0.33000      1553.748       3.99188      -8.74    -0.103   438938.39
 0.                0.33725508+01  0.43391508+04  0.25377262+06  0.78860951+00 -0.34985673-00 -0.50566142+00  0.37944241+02
 0.32999999-00     0.10973257-01  0.17541304+04  0.47081547+05  0.29453865-00  0.93680296+00 -0.18880271-00  0.72870126+02
 0.                0.35664768-01  0.20896176+04  0.21008641+08  0.53975924+00 -0.45170428-04  0.84181838+00  0.57332748+02
 0.33170365+03 -0.33170365+03  0.30066510+04  0.88689689+00  0.52308083+00  0.33392414+04  0.26854497+03  0.45974295+08
 0.11068049+07  0.75120589+08  0.14242685+03  0.29112872+03
1   0.79533005+02  0.22560772+01  0.12820370+04  0.26930071+03  0.23147429+05  0.54304016+05 -0.44647230+01  0.33725508+01
2   0.55784725+02  0.63055279+02  0.60366945+02  0.69561354+02  0.50379999+02  0.68454999+02  0.10988050+04  0.81238774+03
3   0.39571746+03  0.88631961+03  0.80433865+02  0.18886685+03  0.             0.              0.47615132+03  0.10751864+04
4   0.17126530+03 -0.33717764+01  0.39788338+01  0.13003633+05  0.30216450+05  0.              0.23389983+01  0.22056053+01
5   0.59500000+02  0.31580791+02  0.31752799+02  0.17200890-00  0.22397681+01 -0.58839054+02  0.35605171-01  0.83983949-01
6   0.78883426+01  0.16692700+02  0.61500001+02  0.36499999+02  0.18900000+02  0.92000001+02  0.85860061+00  0.68454999+02

               120.0000     104657.00      4195.772      32.29017      5316.201      24.51572   -5163.90    94.653      246.20
               279.7569   21014577.75      81690.859      32.00725    129199.132       3.46341    1691.31     1.007       20.46
                28.2886         15.80    370954.492       0.33000      1554.480       4.14416     -17.41    -0.104   368809.30
 0.                0.34634092+01  0.45111082+04  0.26262188+06  0.79438186+00 -0.34985673-00 -0.49654394-00  0.37403089+02
 0.32999999-00     0.11275866-01  0.18191875+04  0.50654496+05  0.29669391-00  0.93680296+00 -0.18539742-00  0.72740860+02
 0.                0.33139777-01  0.21453326+04  0.21012876+08  0.53002658+00 -0.45170428-04  0.84797997+00  0.57992747+02
 0.33448453+03 -0.33448453+03  0.30406271+04  0.92059266+00  0.55651474+00  0.33762322+04  0.26894765+03  0.46879281+08
 0.10330153+07  0.77265018+08  0.14273359+03  0.29118624+03
1   0.81151312+02  0.22611231+01  0.12828066+04  0.26926126+03  0.22195347+05  0.52152706+05 -0.46264093+01  0.34634092+01
2   0.55696418+02  0.63944737+02  0.60385917+02  0.70530439+02  0.50379999+02  0.68424997+02  0.11016680+04  0.81712080+03
3   0.39562143+03  0.88718726+03  0.80309676+02  0.18895159+03  0.             0.              0.47593110+03  0.10761388+04
4   0.17692432+03 -0.35011274+01  0.40756454+01  0.12493349+05  0.29342955+05  0.              0.22559244+01  0.22053106+01
5   0.59500000+02  0.31827385+02  0.31969478+02  0.14209299-00  0.22425059+01 -0.54834991+02  0.33182200-01  0.78268749-01
6   0.78131326+01  0.16485775+02  0.59600001+02  0.36200000+02  0.17680000+02  0.90600001+02  0.88969410+00  0.68424997+02

               122.0000     109128.75      4387.648      31.64811      5513.160      24.28587   -4340.73    94.672      218.17
               279.7790   21019051.00      81739.424      31.46725    126089.440       3.55766    1602.26     1.096       16.62
                28.2870         16.97    371196.207       0.27000      1555.235       4.29802     -21.02    -0.105   303970.71
 0.                0.35576618+01  0.46869901+04  0.27182099+06  0.79902633+00 -0.34985673-00 -0.48903510-00  0.36962775+02
 0.26999999-00     0.11050530-01  0.18864545+04  0.54359774+05  0.29842804-00  0.93680296+00 -0.18259294-00  0.72636787+02
 0.                0.32753876-01  0.22021793+04  0.21017224+08  0.52201112+00 -0.45170428-04  0.85293761+00  0.58532748+02
 0.33689126+03 -0.33689126+03  0.30743691+04  0.95995323+00  0.59561491+00  0.34122202+04  0.26933727+03  0.47784856+08
 0.95726511+06  0.79259398+08  0.14303452+03  0.29123163+03
1   0.82805716+02  0.22641835+01  0.12836001+04  0.26922464+03  0.21243697+05  0.49999484+05 -0.47783020+01  0.35576618+01
2   0.55604482+02  0.64847671+02  0.60405301+02  0.71515980+02  0.50379999+02  0.68394997+02  0.11045291+04  0.82186223+03
3   0.39552273+03  0.88607745+03  0.80193415+02  0.18903123+03  0.             0.              0.47571614+03  0.10771087+04
4   0.18224057+03 -0.36226416+01  0.41669811+01  0.11983354+05  0.27868427+05  0.              0.21728974+01  0.22050389+01
5   0.59500000+02  0.32070738+02  0.32186142+02  0.11540344-00  0.22453171+01 -0.50723620+02  0.30694293-01  0.72400381-01
6   0.77304318+01  0.16259451+02  0.57700001+02  0.35900000+02  0.16460001+02  0.89200000+02  0.91890425+00  0.68394997+02

               124.0000     113725.25      4586.235      31.03882      5716.648      24.06225   -3695.15    94.692      195.71
               279.8023   21023649.50      81781.224      30.92725    122978.213       3.65506    1510.81     1.155       13.81
                28.2854         18.21    371417.441       0.27000      1556.009       4.45494     -24.62    -0.105   256120.54
 0.                0.36550595+01  0.48728656+04  0.28138184+06  0.80359982+00 -0.34985673-00 -0.48148282-00  0.36524751+02
 0.26999999-00     0.11444244-01  0.19559523+04  0.58201798+05  0.30013566-00  0.93680296+00 -0.17977225-00  0.72534249+02
 0.                0.32184577-01  0.22604205+04  0.21021686+08  0.51394928+00 -0.45170428-04  0.85781950+00  0.59072749+02
 0.33897271+03 -0.33897271+03  0.31073035+04  0.10083386+01  0.64371395+00  0.34472845+04  0.26971425+03  0.48690987+08
 0.85758915+06  0.81112076+08  0.14332989+03  0.29125583+03
1   0.84482164+02  0.22681905+01  0.12844060+04  0.26919304+03  0.20292547+05  0.47844227+05 -0.50841285+01  0.36550595+01
2   0.55511194+02  0.65757708+02  0.60426988+02  0.72511306+02  0.50379999+02  0.68364996+02  0.11073894+04  0.82661001+03
3   0.39542395+03  0.66896205+03  0.79945837+02  0.18924720+03  0.             0.              0.47536978+03  0.10782292+04
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CASE  1                         TRAJECTORY ID  -6 NOM                        SECTION  2                              PAGE  18
4   0.19252385+03 -0.38757155+01  0.43925412+01  0.11468921+05  0.26693362+05  0.             0.20898892+01  0.22047758+01
5   0.59500000+02  0.32306907+02  0.32402813+02  0.95905561-01  0.22481666+01 -0.46556284+02  0.28172521-01  0.66452132-01
6   0.76386140+01  0.16010591+02  0.55800001+02  0.35600000+02  0.15240000+02  0.87800001+02  0.97771703+00  0.68364996+02

               126.0000    118450.00      4791.733     30.45918       5926.891      23.84396   -3099.73   94.713       169.42
               279.8268  21028375.75     81828.913     30.38725     119865.272       3.75723    1343.52    1.189        11.20
                28.2836        19.50    371642.363      0.27000       1555.971       4.61468     -26.99   -0.106    210280.05
 0.                0.37572321+01  0.50629584+04  0.29131659+06  0.80810193+00 -0.34985673-00 -0.47388778-00  0.36089102+02
 0.26999999-00     0.11853988-01  0.20278007+04  0.62185147+05  0.30181661-00  0.93680296+00 -0.17693558-00  0.72433254+02
 0.                0.30327199-01  0.23200255+04  0.21026266+08  0.50584178+00 -0.45170428-04  0.86262518+00  0.59612750+02
 0.34079720+03 -0.34079720+03  0.31396567+04  0.10638308+01  0.69893551+00  0.34815177+04  0.27007867+03  0.49597649+08
 0.81179664+06  0.82826942+08  0.14361996+03  0.29125099+03
1   0.86230142+02  0.22746786+01  0.12852500+04  0.26931154+03  0.19342447+05  0.45686206+05 -0.56941349+01  0.37572321+01
2   0.55413960+02  0.66696765+02  0.64450426+02  0.73539869+02  0.50379999+02  0.68334997+02  0.11102467+04  0.83136737+03
3   0.39531943+03  0.88993053+03  0.79402408+02  0.18990913+03  0.             0.             0.47472184+03  0.10798396+04
4   0.21082404+03 -0.44247214+01  0.50635483+01  0.10948472+05  0.25522661+05  0.             0.20069622+01  0.22045168+01
5   0.59500000+02  0.32541729+02  0.32619476+02  0.77746954-01  0.22511612+01 -0.42176685+02  0.25522302-01  0.60200910-01
6   0.75406188+01  0.15744176+02  0.53900000+02  0.35300000+02  0.14020000+02  0.86400000+02  0.19950259+01  0.68334997+02

               128.0000    123306.50      5004.483     29.90613       6144.253      23.63014   -2591.39   94.733       149.67
               279.8525  21033233.75     81870.003     29.84725     116750.344       3.86405    1196.36    1.200         9.20
                28.2817        20.87    371860.070      0.27000       1557.970       4.77942     -27.11   -0.106    175069.13
 0.                0.38640532+01  0.52596275+04  0.30163806+06  0.81253225+00 -0.34985673-00 -0.46625064-00  0.35655916+02
 0.26999999-00     0.12309087-01  0.21021336+04  0.66314659+05  0.30347076-00  0.93680296+00 -0.17408320-00  0.72333815+02
 0.                0.28713945-01  0.23810074+04  0.21030967+08  0.49768936-00 -0.45170428-04  0.86735424+00  0.60152751+02
 0.34234216+03 -0.34234216+03  0.31714521+04  0.11240237+01  0.75887823+00  0.35149182+04  0.27043094+03  0.50504852+08
 0.74904206+06  0.84376157+08  0.14390501+03  0.29123057+03
1   0.88036112+02  0.22815675+01  0.12861261+04  0.26943368+03  0.18393679+05  0.43524864+05 -0.63147059+01  0.38640532+01
2   0.55314309+02  0.67658579+02  0.60476892+02  0.74595208+02  0.50379999+02  0.68304998+02  0.11130994+04  0.83613718+03
3   0.39521130+03  0.89091461+03  0.78818186+02  0.19061549+03  0.             0.             0.47402949+03  0.10815302+04
4   0.22944117+03 -0.50147058+01  0.57776470+01  0.10428865+05  0.24350823+05  0.             0.19241694+01  0.22042691+01
5   0.59500000+02  0.32772258+02  0.32836135+02  0.63877409-01  0.22542685+01 -0.37632201+02  0.22772306-01  0.53714339-01
6   0.74350636+01  0.15456055+02  0.52000000+02  0.34599999+02  0.12800000+02  0.85000001+02  0.12143665+01  0.68304998+02

               130.0000    128298.50      5224.732     29.37801       6368.989      23.42073   -2143.72   94.754       131.39
               279.8796  21038228.00     81907.453     29.30725     113633.437       3.97613    1040.19    1.189         7.48
                28.2797        22.31    372066.441      0.27000       1558.970       4.94852     -27.23   -0.107    144213.07
 0.                0.39761341+01  0.54631097+04  0.31235963+06  0.81689041+00 -0.34985673-00 -0.45857209-00  0.35225286+02
 0.26999999-00     0.12813359-01  0.21790434+04  0.70595393+05  0.30509795-00  0.93680296+00 -0.17121536-00  0.72235943+02
 0.                0.26838610-01  0.24434044+04  0.21035791+08  0.48949274-00 -0.45170428-04  0.87200627+00  0.60692752+02
 0.34367670+03 -0.34367670+03  0.32027116+04  0.11871966+01  0.82181835+00  0.35475755+04  0.27077142+03  0.51412551+08
 0.68648180+06  0.85815833+08  0.14418526+03  0.29120018+03
1   0.89915144+02  0.22885930+01  0.12870038+04  0.26955631+03  0.17446326+05  0.41360132+05 -0.69387937+01  0.39761341+01
2   0.55210088+02  0.68732797+02  0.60505031+02  0.75766922+02  0.50379999+02  0.68262497+02  0.11159477+04  0.84090119+03
3   0.39511866+03  0.89188514+03  0.78202228+02  0.19135407+03  0.             0.             0.47332089+03  0.10832392+04
4   0.24816380+03 -0.56387936+01  0.65265523+01  0.99100141+04  0.23177124+05  0.             0.18414970+01  0.22039270+01
5   0.59500000+02  0.33091153+02  0.33143085+02  0.51931579-01  0.22572538+01 -0.33266331+02  0.20130395-01  0.47482713-01
6   0.73220359+01  0.15146282+02  0.50100001+02  0.34700000+02  0.11580001+02  0.83600001+02  0.13343833+01  0.68262497+02

               132.0000    133429.50      5452.848     28.87260       6601.485      23.21522   -1776.48   94.776       115.98
               279.9080  21043361.50     81938.533     28.76725     110514.219       4.09383     894.75    1.159         6.14
                28.2777        23.82    372272.469      0.27000       1560.286       5.11975     -26.90   -0.107    119757.73
 0.                0.40938327+01  0.56737738+04  0.32349528+06  0.82117601+00 -0.34985673-00 -0.45085280-00  0.34797309+02
 0.26999999-00     0.13355390-01  0.22586703+04  0.75432643+05  0.30665804-00  0.93680296+00 -0.16833232-00  0.72139648+02
 0.                0.25106333-01  0.25072496+04  0.21040741+08  0.48125263-00 -0.45170428-04  0.87658083+00  0.61232752+02
 0.34480338+03 -0.34480338+03  0.32334559+04  0.12510452+01  0.88545227+00  0.35795103+04  0.27109996+03  0.52320736+08
 0.63244854+06  0.87127661+08  0.14446090+03  0.29110654+03

CASE  1                         TRAJECTORY ID  -6 NOM                        SECTION  2                              PAGE  19
1   0.91868427+02  0.22960325+01  0.12879208+04  0.26995552+03  0.16500354+05  0.39191706+05 -0.75545758+01  0.40938327+01
2   0.55101275+02  0.69836218+02  0.60535194+02  0.76972690+02  0.50379999+02  0.68219998+02  0.11187927+04  0.84568321+03
3   0.39502034+03  0.89290056+03  0.77631666+02  0.19232386+03  0.             0.             0.47265200+03  0.10852244+04
4   0.26478868+03 -0.62176040+01  0.75058071+01  0.93917679+04  0.22000490+05  0.             0.17589210+01  0.22035919+01
5   0.59500000+02  0.33407386+02  0.33456023+02  0.42637404-01  0.22603870+01 -0.28683928+02  0.17357454-01  0.40942016-01
6   0.72007263+01  0.14812549+02  0.48200000+02  0.34400000+02  0.10360000+02  0.82200000+02  0.14528030+01  0.68219998+02

               134.0000    138704.50      5689.200     28.38841       6842.117      23.01353   -1439.31   94.798       100.57
               279.9378  21048638.25     81970.044     28.22725     107392.139       4.21871     743.65    1.112         4.98
                28.2755        25.40    372532.680      0.27000       1561.835       5.29396     -25.69   -0.107     98194.71
 0.                0.42187089+01  0.58919667+04  0.33505972+06  0.82538866+00 -0.34985673-00 -0.44309347-00  0.34372084+02
 0.26999999-00     0.13932492-01  0.23411467+04  0.79631969+05  0.30827089-00  0.93680296+00 -0.16543431-00  0.72044943+02
 0.                0.23243990-01  0.25726117+04  0.21045821+08  0.47296978-00 -0.45170428-04  0.88107753+00  0.61772753+02
 0.34576199+03 -0.34576199+03  0.32637037+04  0.13138206+01  0.94802952+00  0.36107796+04  0.27141658+03  0.53229445+08
 0.57215157+06  0.88335939+08  0.14473222+03  0.29100484+03
1   0.93936435+02  0.23046519+01  0.12890273+04  0.27039721+03  0.15555810+05  0.37018989+05 -0.81815228+01  0.42187089+01
2   0.54987974+02  0.70705072+02  0.60569271+02  0.77952416+02  0.50379999+02  0.68219997+02  0.11216340+04  0.85053216+03
3   0.39484052+03  0.89418664+03  0.77047165+02  0.19335005+03  0.             0.             0.47188769+03  0.10875368+04
4   0.28150727+03 -0.68027546+01  0.85298204+01  0.88741849+04  0.20822190+05  0.             0.16764507+01  0.22036009+01
5   0.59500000+02  0.33415426+02  0.33450031+02  0.34604555-01  0.22646752+01 -0.22412395+02  0.13562372-01  0.31990342-01
6   0.70723509+01  0.14456058+02  0.46300001+02  0.34100000+02  0.91400003+01  0.80800001+02  0.15733697+01  0.68219997+02

               136.0000    144126.00      5934.246     27.92380       7091.362      22.81538   -1165.63   94.820        87.74
               279.9690  21054062.50     81997.250     27.68724     104266.916       4.35061     611.35    1.047         4.05
                28.2731        27.06    372799.758      0.27000       1563.392       5.47428     -24.39   -0.108     80752.08
 0.                0.43506084+01  0.61161317+04  0.34706846+06  0.82952800+00 -0.34985673-00 -0.43529478-00  0.33949716+02
 0.26999999-00     0.14551605-01  0.24266405+04  0.84339240+05  0.30981635-00  0.93680296+00 -0.16252162-00  0.71951836+02
 0.                0.21672974-01  0.26395647+04  0.21051033+08  0.46464491-00 -0.45170428-04  0.88549596+00  0.62312754+02
 0.34655678+03 -0.34655678+03  0.32934731+04  0.13736372+01  0.10076656+01  0.36414035+04  0.27172196+03  0.54138743+08
 0.52069386+06  0.89425768+08  0.14499933+03  0.29090317+03
1   0.96109442+02  0.23129304+01  0.12901905+04  0.27079171+03  0.14612778+05  0.34841618+05 -0.87399998+01  0.43506084+01
2   0.54868709+02  0.71617366+02  0.60605756+02  0.78981878+02  0.50379999+02  0.68219997+02  0.11244718+04  0.85538865+03
3   0.39465202+03  0.89553855+03  0.76526672+02  0.19426504+03  0.             0.             0.47117869+03  0.10898036+04
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.83572286+04  0.19642058+05  0.             0.15940802+01  0.22036149+01
5   0.59500000+02  0.33421887+02  0.33450031+02  0.28143796-01  0.22691830+01 -0.15819678+02  0.95729338-02  0.22580225-01
6   0.69351260+01  0.14073925+02  0.44400001+02  0.33800000+02  0.79200000+01  0.79400000+02  0.16961788+01  0.68219997+02

               138.0000    149659.75      6188.438     27.47749       7349.674      22.62068    -925.59   94.843        73.66
               280.0017  21059638.75     82008.993     27.14724     101138.947       4.49042     474.49    0.967         3.18
                28.2707        28.79    373079.238      0.27000       1564.624       5.65963     -22.04   -0.108     64059.56
 0.                0.44904181+01  0.63526876+04  0.35953783+06  0.83359364+00 -0.34985673-00 -0.42745743-00  0.33530317+02
 0.26999999-00     0.15208761-01  0.25153111+04  0.89340644+05  0.31133430-00  0.93680296+00 -0.15959448-00  0.71860339+02
 0.                0.19992573-01  0.27081865+04  0.21056380+08  0.45627877-00 -0.45170428-04  0.88983574+00  0.62852754+02
 0.34722280+03 -0.34722280+03  0.33227805+04  0.14290187+01  0.10628824+01  0.36714323+04  0.27201728+03  0.55048622+08
 0.45587084+06  0.90405817+08  0.14526248+03  0.29086028+03
1   0.98403605+02  0.23169409+01  0.12914186+04  0.27079563+03  0.13670614+05  0.32660634+05 -0.87399998+01  0.44904181+01
2   0.54741812+02  0.72579987+02  0.60644010+02  0.80068738+02  0.50379999+02  0.68219997+02  0.11273081+04  0.86025321+03
3   0.39445294+03  0.89696568+03  0.76527478+02  0.19426814+03  0.             0.             0.47098042+03  0.10912338+04
4   0.29639999+03 -0.73239996+01  0.94419996+01  0.78405454+04  0.18459964+05  0.             0.15117532+01  0.22036311+01
5   0.59500000+02  0.33427949+02  0.33450031+02  0.22081088-01  0.22739473+01 -0.88519920+01  0.53565901-02  0.12634894-01
6   0.67883994+01  0.13664004+02  0.42500000+02  0.33499999+02  0.67000007+01  0.78000001+02  0.18244804+01  0.68219997+02

               140.0000    155430.00      6452.319     27.04814       7617.607      22.42922    -705.84   94.866        60.39
               280.0359  21065371.75     82018.540     26.60724      98008.437       4.63916     352.11    0.874         2.51
                28.2662        30.61    373369.910      0.27000       1565.932       5.80039     -19.03   -0.109     49626.27
 0.                0.46391555+01  0.65961500+04  0.37248514+06  0.83758524+00 -0.34985673-00 -0.41958210-00  0.33114000+02
 0.26999999-00     0.15917119-01  0.26073539+04  0.94462730+05  0.31282458-00  0.93680296+00 -0.15665317-00  0.71770462+02
 0.                0.18542219-01  0.27785700+04  0.21061867+08  0.44787210-00 -0.45170428-04  0.89499648+00  0.63392757+02
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CASE  1                              TRAJECTORY ID  -6 NOM                          SECTION  2                         PAGE  20
 0.34775361+03 -0.34775361+03  0.33516416+04  0.14785820+01  0.11122932+01  0.37008738+04  0.27233307+03  0.55959094+08
 0.38963164+06  0.91253880+08  0.14552184+03  0.29080915+03
1    0.10083621+03  0.23211952+01  0.12927215+04  0.27080037+03  0.12728858+05  0.30476700+05 -0.87399998+01  0.46391595+01
2    0.54607712+02  0.73600314+02  0.60685536+02  0.81221186+02  0.50379999+02  0.68219997+02  0.11301439+04  0.86512288+03
3    0.39424244+03  0.89847910+03  0.76528404+02  0.19427197+03  0.             0.             0.47077084+03  0.10927510+04
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.73239622+04  0.17276628+05  0.             0.14294422+01  0.22036526+01
5    0.59500000+02  0.33432587+02  0.33450031+02  0.17443297-01  0.22790013+01 -0.14606072+01  0.88385465-03  0.20847984-02
6    0.66314003+01  0.13224722+02  0.40600001+02  0.33200000+02  0.54800005+01  0.76600001+02  0.19642185+01  0.68219997+02

                 142.0000     161322.25      6726.464     26.63766      7895.720      22.24342     -515.89    94.890       52.75
                 280.0718   21071266.25     82026.011     26.18724     94875.216       4.79754      307.97     0.884        2.04
                  28.2655         32.51    373664.168      0.21000      1567.339       6.08324      -17.24    -0.109    42836.13
 0.                0.47975440+01  0.68489155+04  0.38592863+06  0.84063840+00 -0.34985673-00 -0.41343105-00  0.32792404+02
 0.20999999-00     0.16638251-01  0.27029200+04  0.99772409+05  0.31396449-00  0.93680296+00 -0.15435585-00  0.71701687+02
 0.                0.18601105-01  0.28511348+04  0.21067496+08  0.44130605-00 -0.45170428-04  0.89735550+00  0.63812757+02
 0.34816034+03 -0.34816034+03  0.33800721+04  0.15270833+01  0.11606559+01  0.37297595+04  0.27257957+03  0.56870169+08
 0.35483877+06  0.91997326+08  0.14577762+03  0.29074064+03
1    0.10341748+03  0.23257145+01  0.12941229+04  0.27080581+03  0.11787528+05  0.28289629+05 -0.87399998+01  0.47975440+01
2    0.54464734+02  0.74682498+02  0.60729580+02  0.82444063+02  0.50379999+02  0.68219997+02  0.11329832+04  0.86999954+03
3    0.39402469+03  0.90009817+03  0.76529428+02  0.19427639+03  0.             0.             0.47055411+03  0.10943745+04
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.68067067+04  0.16091597+05  0.             0.13470240+01  0.22036789+01
5    0.59500000+02  0.33435893+02  0.33450031+02  0.14137615-01  0.22843697+01 -0.26218399+01  0.15512553-02  0.36487273-02
6    0.64624032+01  0.12752565+02  0.36700000+02  0.32900000+02  0.42600001+01  0.75200000+02  0.21242041+01  0.68219997+02

                 144.0000     167382.25      7011.478     26.24807      8184.601      22.06579     -362.04    94.914       46.02
                 280.1093   21077329.25     82005.129     25.76724     91740.176       4.96629      264.82     0.876        1.63
                  28.2626         34.50    373971.199      0.21000      1568.052       6.34100      -16.01    -0.110    35853.48
 0.                0.49662860+01  0.71113959+04  0.39988727+06  0.84364639+00 -0.34985673-00 -0.40725779-00  0.32472802+02
 0.20999999-00     0.17504904-01  0.28021662+04  0.10527685+06  0.31508753-00  0.93680296+00 -0.15205024-00  0.71633901+02
 0.                0.18637401-01  0.29263644+04  0.21073274+08  0.43471628-00 -0.45170428-04  0.90756630+00  0.64232756+02
 0.34846480+03 -0.34846480+03  0.34080907+04  0.15789671+01  0.12124147+01  0.37581345+04  0.27284870+03  0.57781821+08
 0.32269905+06  0.92674752+08  0.14602999+03  0.29079077+03
1    0.10615415+03  0.23213731+01  0.12956061+04  0.27003624+03  0.10845185+05  0.26101752+05 -0.76224612+01  0.49662860+01
2    0.54359537+02  0.75829106+02  0.60823630+02  0.83740561+02  0.50379999+02  0.68219997+02  0.11358408+04  0.87488491+03
3    0.39380931+03  0.90179668+03  0.77574760+02  0.19246148+03  0.             0.             0.47138407+03  0.10942583+04
4    0.26659896+03 -0.62809638+01  0.76166867+01  0.63599322+04  0.14901040+05  0.             0.12743439+01  0.22037437+01
5    0.59500000+02  0.33438679+02  0.33450031+02  0.11352052-01  0.22899322+01 -0.59593645+01  0.35259573-02  0.82934488-02
6    0.63287520+01  0.12243275+02  0.36800001+02  0.32600000+02  0.30400009+01  0.73800001+02  0.14658579+01  0.68219997+02

                 146.0000     173617.50      7308.083     25.87783      8484.984      21.89582     -227.43    94.939       39.90
                 280.1485   21083567.25     81997.456     25.34724     88602.899       5.14726      222.02     0.851        1.30
                  28.2596         36.59    374298.559      0.21000      1569.303       6.60924      -14.68    -0.110    29821.17
 0.                0.51472601+01  0.73842634+04  0.41438113+06  0.84660905+00 -0.34985673-00 -0.40106264-00  0.32155255+02
 0.20999999-00     0.18486068-01  0.29053553+04  0.11098369+06  0.31619365-00  0.93680296+00 -0.14973646-00  0.71567111+02
 0.                0.18706451-01  0.30044172+04  0.21079203+08  0.42810315-00 -0.45170428-04  0.92372872+00  0.64652757+02
 0.34867650+03 -0.34867650+03  0.34357161+04  0.16325542+01  0.12656920+01  0.37862251+04  0.27310965+03  0.58694087+08
 0.29159416+06  0.93288896+08  0.14627921+03  0.29076277+03
1    0.10908786+03  0.23224422+01  0.12972645+04  0.26968833+03  0.99021627+04  0.23912318+05 -0.71173262+01  0.51472601+01
2    0.54189754+02  0.77058196+02  0.60867536+02  0.85130406+02  0.50379999+02  0.68219997+02  0.11387169+04  0.87977156+03
3    0.39356150+03  0.90364306+03  0.78047267+02  0.19164106+03  0.             0.             0.47160877+03  0.10952841+04
4    0.25312869+03 -0.58095044+01  0.67916328+01  0.58525191+04  0.13694099+05  0.             0.11904901+01  0.22037718+01
5    0.59500000+02  0.33440972+02  0.33450031+02  0.90588680-02  0.22960648+01 -0.96389241+01  0.57030301-02  0.13414169-01
6    0.61277573+01  0.11696412+02  0.34900001+02  0.32300000+02  0.18200006+01  0.72400001+02  0.13687166+01  0.68219997+02

                 148.0000     180035.50      7617.096     25.52566      8797.700      21.73316      -89.62    94.964       35.06
                 280.1895   21089989.00     82008.133     24.92724     85462.564       5.34225      184.71     0.811        1.03
                  28.2565         38.76    374650.000      0.21000      1571.186       6.96447      -13.70    -0.111    25565.23

CASE  1                              TRAJECTORY ID  -6 NOM                          SECTION  2                         PAGE  21
 0.                0.53422453+01  0.76682734+04  0.42943174+06  0.84952621+00 -0.34985673-00 -0.39484594-00  0.31839824+02
 0.20999999-00     0.19534146-01  0.30127747+04  0.11690109+06  0.31728277-00  0.93680296+00 -0.14741463-00  0.71501321+02
 0.                0.18908307-01  0.30854973+04  0.21085293+08  0.42146701-00 -0.45170428-04  0.91684257+00  0.65072758+02
 0.34879655+03 -0.34879655+03  0.34625657+04  0.16862015+01  0.13194484+01  0.38134484+04  0.27336197+03  0.59607032+08
 0.26706972+06  0.93846418+08  0.14652549+03  0.29064476+03
1    0.11225262+03  0.23297620+01  0.12989307+04  0.26984514+03  0.89593030+04  0.21719661+05 -0.73341642+01  0.53422453+01
2    0.53998110+02  0.78384296+02  0.60976128+02  0.86629709+02  0.50379999+02  0.68219997+02  0.11416573+04  0.88465722+03
3    0.39329175+03  0.90563904+03  0.77845807+02  0.19199933+03  0.             0.             0.47113755+03  0.10976384+04
4    0.25891164+03 -0.60118865+01  0.71458015+01  0.53337701+04  0.12487403+05  0.             0.11047629+01  0.22037969+01
5    0.59500000+02  0.33442865+02  0.33450031+02  0.71658267-02  0.23027145+01 -0.13628761+02  0.80989739-02  0.19045416-01
6    0.59019091+01  0.11109067+02  0.33000001+02  0.32000000+02  0.60000038+00  0.71000001+02  0.14104161+01  0.68219997+02

                 150.0000     186644.25      7939.457     25.19043      9123.696      21.57751       40.31    94.991       30.71
                 280.2324   21096601.25     82043.660     24.50724     82318.015       5.55298      149.79     0.757        0.81
                  28.2532         41.04    375032.574      0.21000      1573.906       7.37891      -12.65    -0.112    22043.80
 0.                0.55529751+01  0.79642861+04  0.44506222+06  0.85239772+00 -0.34985673-00 -0.38860802-00  0.31526574+02
 0.20999999-00     0.20661008-01  0.31247503+04  0.12303782+06  0.31835484-00  0.93680296+00 -0.14508488-00  0.71436538+02
 0.                0.19193364-01  0.31698439+04  0.21091548+08  0.41480824-00 -0.45170428-04  0.90990768+00  0.65492757+02
 0.34881796+03 -0.34881796+03  0.34898560+04  0.17383334+01  0.13715019+01  0.38404122+04  0.27360485+03  0.60520741+08
 0.24381067+06  0.94357450+08  0.14676901+03  0.29040813+03
1    0.11570668+03  0.23454773+01  0.13008190+04  0.27067678+03  0.80178095+04  0.19521426+05 -0.85165853+01  0.55529751+01
2    0.53779771+02  0.79833474+02  0.60936613+02  0.88266072+02  0.50379999+02  0.68219997+02  0.11446752+04  0.88947863+03
3    0.39299445+03  0.90782458+03  0.76742942+02  0.19393384+03  0.             0.             0.46973739+03  0.11017584+04
4    0.29044227+03 -0.71154796+01  0.90770892+01  0.48363575+04  0.11358008+05  0.             0.10167771+01  0.22038165+01
5    0.59500000+02  0.33444440+02  0.33450031+02  0.55909311-02  0.23100176+01 -0.18010614+02  0.10786510-01  0.25355284-01
6    0.56461322+01  0.10490291+02  0.31100002+02  0.31700000+02 -0.61999989+00  0.69600001+02  0.16378049+01  0.68219997+02

                 152.0000     193453.00      8276.226     24.87107      9464.043      21.42859      167.44    95.018       26.53
                 280.2772   21103413.25     82052.406     24.08724     79168.022       5.78080      116.92     0.689        0.62
                  28.2498         43.42    375441.090      0.21000      1576.089       7.82705      -11.38    -0.113    18780.97
 0.                0.57807954+01  0.82732730+04  0.46129753+06  0.85522343+00 -0.34985673-00 -0.38234923-00  0.31215572+02
 0.20999999-00     0.21875348-01  0.32416510+04  0.12940337+06  0.31940980-00  0.93680296+00 -0.14274734-00  0.71372765+02
 0.                0.19561009-01  0.32577231+04  0.21097974+08  0.40812717-00 -0.45170428-04  0.91292390+00  0.65912758+02
 0.34873549+03 -0.34873549+03  0.35164024+04  0.17874394+01  0.14205446+01  0.38669252+04  0.27383840+03  0.61435308+08
 0.21954412+06  0.94820901+08  0.14701001+03  0.29027065+03
1    0.11940879+03  0.23539280+01  0.13028438+04  0.27083485+03  0.70789618+04  0.17315102+05 -0.87399998+01  0.57807954+01
2    0.53524861+02  0.81384978+02  0.60950708+02  0.90019944+02  0.50379999+02  0.68219997+02  0.11478046+04  0.89436227+03
3    0.39266989+03  0.91017388+03  0.76534743+02  0.19430011+03  0.             0.             0.46920463+03  0.11044739+04
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.43221769+04  0.10249001+05  0.             0.92553849+00  0.22038244+01
5    0.59500000+02  0.33445738+02  0.33450031+02  0.42923949-02  0.23179098+01 -0.22745927+02  0.13690835-01  0.32174136-01
6    0.53503425+01  0.98061239+01  0.29200000+02  0.31400000+02 -0.18399992+01  0.68200000+02  0.23448767+01  0.68219997+02

                 151.3087     191076.75      8158.128     24.97973      9344.715      21.47932      124.96    95.008       27.95
                 280.2614   21101035.75     82051.606     24.23241     80257.681       5.69997      127.97     0.714        0.68
                  28.2510         42.58    375296.680      0.21000      1575.372       7.66809      -11.84    -0.113    19878.38
 0.                0.56999716+01  0.81649457+04  0.45561609+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.20999999-00     0.21444985-01  0.32006650+04  0.12717675+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                0.19422268-01  0.32269330+04  0.21095733+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34877586+03 -0.34877586+03  0.35072652+04  0.17708929+01  0.14040188+01  0.38578118+04  0.27375783+03  0.61119112+08
 0.22801554+06  0.94666211+08  0.14692700+03  0.29031058+03
1    0.11839873+03  0.23515742+01  0.13021270+04  0.27083462+03  0.74033035+04  0.18078753+05 -0.87399998+01  0.56999716+01
2    0.53617934+02  0.80836124+02  0.60948355+02  0.89399302+02  0.50379999+02  0.68219997+02  0.11467069+04  0.89266776+03
3    0.39278556+03  0.90934151+03  0.76534694+02  0.19429993+03  0.             0.             0.46932026+03  0.11036414+04
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.45025299+04  0.10633800+05  0.             0.95754120+00  0.22038235+01
5    0.59500000+02  0.33445319+02  0.33450031+02  0.47120147-02  0.23151081+01 -0.21064880+02  0.12659793-01  0.29753427-01
6    0.54579584+01  0.10050348+02  0.29856697+02  0.31503689+02 -0.14183311+01  0.68683882+02  0.20507718+01  0.68219997+02
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CASE  1                          TRAJECTORY ID  -6 NOM                           SECTION  2                              PAGE  22

                151.3087     191076.75     8158.128     24.97973      9344.715      21.47932      124.96   95.098         27.95
                280.2614  21101035.75     82051.666     24.23241     80257.681       5.69997      127.97    0.714          0.68
                 28.2510        42.58    375296.680      0.21003      1575.372       7.66809      -11.84   -0.113      19878.38
 0.                  0.56999716+01  0.81649457+04  0.45561609+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.20999999-00  0.21444985-01  0.32006650+04  0.12717675+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.19422268-01  0.32265330+04  0.21095733+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34877586+03 -0.34877586+03  0.35072652+04  0.17708929+01  0.14040188+01  0.38578118+04  0.27375783+03  0.61119112+08
 0.22801554+06  0.94666211+08  0.14692700+03  0.29031058+03
1    0.11809873+03  0.23515742+01  0.13021270+04  0.27083462+03  0.74033035+04  0.18078753+05 -0.87399998+01  0.56999716+01
2    0.53617934+02  0.80836124+02  0.60948355+02  0.89399302+02  0.50379999+02  0.68219997+02  0.11467069+04  0.89266776+03
3    0.39278556+03  0.90934151+03  0.76534694+02  0.19429993+03  0.             0.             0.46932026+03  0.11036414+04
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.45025299+04  0.10633800+05  0.             0.95754120+00  0.22038235+01
5    0.59500000+02  0.33445319+02  0.33450031+02  0.47120147-02  0.23151081+01 -0.21064880+02  0.12659793-01  0.29753427-01
6    0.54579584+01  0.10050348+02  0.29856697+02  0.31503689+02 -0.14183311+01  0.68683882+02  0.20507718+01  0.68219997+02
BEGIN DECAY

                151.4187     191453.00     8174.307     24.96173      9361.098      21.46976      131.01   95.010         27.70
                280.2639  21101412.25     81901.313     24.23241     80090.694       4.30437      130.12    0.734          0.67
                 28.2508        42.71    262707.672      0.           1460.319       7.69074      -11.67   -0.112      19695.72
 0.                  0.43043700+01  0.81799936+04  0.45651509+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                 -0.14569456-03  0.32062867+04  0.12752914+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.16245984-02  0.32307258+04  0.21096089+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34877028+03 -0.34877028+03  0.35087217+04  0.17749469+01  0.14084993+01  0.38592669+04  0.27375843+03  0.61163218+08
 0.22646733+06  0.94691207+08  0.14694022+03  0.23598198+03
1    0.10655265+03  0.23540369+01  0.11875398+04  0.27036918+03  0.73535798+04  0.17961755+05 -0.87399998+01  0.43043700+01
2    0.52002040+02  0.64635846+02  0.57684571+02  0.83929346+02  0.50379999+02  0.68219997+02  0.11468752+04  0.89292737+03
3    0.35822043+03  0.82931944+03  0.76452480+02  0.19391669+03  0.             0.             0.43467291+03  0.10232361+04
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.44748841+04  0.10574847+05  0.             0.95263560+00  0.22013735+01
5    0.59500000+02  0.33445387+02  0.33450031+02  0.46432859-02  0.22453829+01 -0.50627426+02  0.30636083-01  0.72263078-01
6    0.41005058+01  0.75454863+01  0.29752199+02  0.31487189+02 -0.14854307+01  0.68606884+02  0.20946454+01  0.68219997+02

                151.5587     191932.25     8185.955     24.93832      9373.028      21.45380      135.67   95.013         27.34
                280.2671  21101891.75     81625.310     24.23241     79896.457       1.72793      132.63    0.760          0.66
                 28.2506        42.88     56294.501      0.           1313.629       7.71122      -11.44   -0.112      19443.51
 0.                  0.17279299+01  0.81915034+04  0.45766121+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                 -0.14321096-03  0.32105875+04  0.12797837+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.16599975-02  0.32318817+04  0.21096541+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34876288+03 -0.34876288+03  0.35105741+04  0.17763389+01  0.14097619+01  0.38611133+04  0.27368432+03  0.61196995+08
 0.22376311+06  0.94722723+08  0.14695701+03  0.10499141+03
1    0.38776485+02  0.23575350+01  0.10417016+04  0.26951782+03  0.72958046+04  0.17825630+05 -0.87399998+01  0.17279299+01
2    0.49060721+02  0.34815482+02  0.51701055+02  0.51820391+02  0.50379999+02  0.68219997+02  0.11470708+04  0.89322943+03
3    0.31422845+03  0.72747320+03  0.76301936+02  0.19321588+03  0.             0.             0.39053039+03  0.92068908+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.44427557+04  0.10506254+05  0.             0.94693458+00  0.21968696+01
5    0.59500000+02  0.33445474+02  0.33450031+02  0.45570055-02  0.21188948+01 -0.42468257+03  0.25720491-00  0.60451495+03
6    0.16362592+01  0.30084598+01  0.29619198+02  0.31466189+02 -0.15708312+01  0.68508882+02  0.21456946+01  0.68219997+02

                151.6587     192274.75     8189.694     24.92131      9376.981      21.44043      137.44   95.014         27.04
                280.2694  21102234.25     81596.269     24.23241     79815.442       1.45662      134.29    0.779          0.65
                 28.2504        43.00     34527.294      0.            306.605       7.72158      -11.28   -0.112      19254.06
 0.                  0.14566228+01  0.81958109+04  0.45848057+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                 -0.14131159-03  0.32121977+04  0.12829950+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.16825190-02  0.32308273+04  0.21096864+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34875745+03 -0.34875745+03  0.35116961+04  0.17768984+01  0.14102729+01  0.38624305+04  0.27370360+03  0.61209697+08
 0.22147200+06  0.94744984+08  0.14696899+03  0.37874007+03
1    0.31634922+02  0.25056221+01  0.34766792+02  0.26942811+03  0.72719389+04  0.17768721+05 -0.87399998+01  0.14566228+01
2    0.48750067+02  0.31673183+02  0.51070022+02  0.48437075+02  0.50379999+02  0.68219997+02  0.11471515+04  0.89335570+03
3    0.10487374+02  0.24279418+02  0.76286067+02  0.19314204+03  0.             0.             0.86773441+02  0.21742146+03

CASE  1                          TRAJECTORY ID  -6 NOM                           SECTION  2                              PAGE  23
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.44294831+04  0.10477579+05  0.             0.94457943+00  0.21963936+01
5    0.59500000+02  0.33445534+02  0.33450031+02  0.44962034-02  0.21057131+01 -0.48769120+03  0.29543190-00  0.69415066+03
6    0.13758981+01  0.25288005+01  0.29524198+02  0.31451190+02 -0.16318302+01  0.68438883+02  0.21646234+01  0.68219997+02

                152.0000     193443.25     8199.748     24.86320      9387.767      21.39374      142.30   95.020         26.05
                280.2771  21103403.50     81572.603     24.23241     79716.593       1.23327      139.50    0.844          0.62
                 28.2498        43.41     16597.002      0.            272.632       7.75453      -10.73   -0.111      18612.89
 0.                  0.12332676+01  0.82081901+04  0.46127965+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                 -0.13465178-03  0.32168262+04  0.12939651+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.17499904-02  0.32261156+04  0.21097966+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34873849+03 -0.34873849+03  0.35164008+04  0.17786682+01  0.14119027+01  0.38669179+04  0.27375321+03  0.61246251+08
 0.21358535+06  0.94819216+08  0.14700967+03  0.36008044+03
1    0.25755107+02  0.25307088+01  0.86623720+00  0.26935419+03  0.72440714+04  0.17698563+05 -0.87399998+01  0.12332676+01
2    0.48494149+02  0.29086019+02  0.50550375+02  0.45651513+02  0.50379999+02  0.68219997+02  0.11472458+04  0.89351139+03
3    0.26190304-00  0.60633416+00  0.76272994+02  0.19308121+03  0.             0.             0.76534896+02  0.19368754+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.44139893+04  0.10442224+05  0.             0.94183012+00  0.21960011+01
5    0.59500000+02  0.33445737+02  0.33450031+02  0.42940477-02  0.20948809+01 -0.55093533+03  0.33360215-00  0.78428755+03
6    0.11615337+01  0.21334659+01  0.29200000+02  0.31400000+02 -0.18399992+01  0.68200000+02  0.21736889+01  0.68219997+02

                152.0087     193473.00     8199.973     24.86172      9388.011      21.39253      142.40   95.020         26.02
                280.2773  21103433.75     81571.995     24.23241     79714.215       1.22754      139.63    0.845          0.62
                 28.2498        43.43     16137.757      0.            271.762       7.75534      -10.72   -0.111      18596.73
 0.                  0.12275370+01  0.82084795+04  0.46135139+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                 -0.13448568-03  0.32169344+04  0.12942463+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.17516170-02  0.32259817+04  0.21097994+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34873800+03 -0.34873800+03  0.35165160+04  0.17787130+01  0.14119443+01  0.38670327+04  0.27375413+03  0.61247116+08
 0.21338521+06  0.94821083+08  0.14701071+03  0.35954124+03
1    0.25604209+02  0.25314397+01  0.             0.26935230+03  0.72434036+04  0.17696873+05 -0.87399998+01  0.12275370+01
2    0.48487599+02  0.29019626+02  0.50537052+02  0.45580024+02  0.50379999+02  0.68219997+02  0.11472481+04  0.89351514+03
3    0.             0.             0.76272659+02  0.19307964+03  0.             0.             0.76272659+02  0.19307964+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.44136182+04  0.10441373+05  0.             0.94176428+00  0.21959911+01
5    0.59500000+02  0.33445742+02  0.33450031+02  0.42890060-02  0.20946033+01 -0.55288498+03  0.33477416-00  0.78685927+03
6    0.11560506+01  0.21233617+01  0.29191700+02  0.31398669+02 -0.18453302+01  0.68193883+02  0.21738777+01  0.68219997+02

                153.0087     196889.50     8222.512     24.69184      9412.703      21.25341      152.17   95.036         23.25
                280.3000  21106851.75     81551.295     24.23241     79442.452       1.02846      151.27    1.035          0.54
                 28.2480        44.63         0.           0.            271.696       7.84674       -9.25   -0.108      16809.36
 0.                  0.10284609+01  0.82387818+04  0.46957547+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                 -0.11642916-03  0.32282666+04  0.13264740+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.19040833-02  0.32093205+04  0.21101211+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34867948+03 -0.34867948+03  0.35296541+04  0.17844018+01  0.14172905+01  0.38801180+04  0.27382223+03  0.61336746+08
 0.19116843+06  0.95023355+08  0.14712807+03  0.30015675+03
1    0.20343652+02  0.25311115+01  0.             0.26928569+03  0.71671311+04  0.17503794+05 -0.87399998+01  0.10284609+01
2    0.48254974+02  0.26704273+02  0.50069363+02  0.43087836+02  0.50379999+02  0.68219997+02  0.11475062+04  0.89394356+03
3    0.             0.             0.76260885+02  0.19302481+03  0.             0.             0.76260885+02  0.19302481+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.43712056+04  0.10344084+05  0.             0.93423840+00  0.21956369+01
5    0.59500000+02  0.33446287+02  0.33450031+02  0.37431781-02  0.20849346+01 -0.62075824+03  0.37557547-00  0.88335147+03
6    0.96082776+00  0.17616096+01  0.28241699+02  0.31248689+02 -0.24553308+01  0.67493883+02  0.21953877+01  0.68219997+02
END DECAY
BEGIN DELAY

                154.0000     200263.25     8241.820     24.52530      9434.126      21.11589      158.09   95.052         20.74
                280.3227  21110227.25      1716.205     24.23241     79174.679       1.03201      158.15    1.222          0.47
                 28.2462        45.83     79835.877      0.            270.136       7.93639       -8.09   -0.107      15180.73
 0.                  0.10320061+01  0.82660436+04  0.47775576+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                  0.39491365-02  0.32386011+04  0.13585257+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.64099144-02  0.31916658+04  0.21104383+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34861841+03 -0.34861841+03  0.35425877+04  0.17946308+01  0.14275181+01  0.38930007+04  0.27385575+03  0.61417585+08
 0.17095685+06  0.95202835+08  0.14724174+03  0.30189305+03
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CASE  1                        TRAJECTORY ID  -6 NOM                          SECTION  2                        PAGE  24
1   0.20400035+02  0.25311105+01  0.             0.26528557+03  0.70915367+04  0.17312457+05 -0.87399998+01  0.10320061+01
2   0.48250766+02  0.26727836+02  0.50069340+02  0.43114547+02  0.50379999+02  0.68219997+02  0.11477620+04  0.89436813+03
3   0.             0.             0.76260871+02  0.19302469+03  0.             0.             0.76260871+02  0.19302469+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.43291692+04  0.10247670+05  0.             0.92677924+00  0.21956360+01
5   0.59500000+02  0.33446766+02  0.33450031+02  0.32645529-02  0.20850503+01 -0.61994608+03  0.37508725-00  0.88219685+00
6   0.95644175+00  0.17503837+01  0.28241699+02  0.31100000+02 -0.24553308+01  0.66800001+02  0.22172134+01  0.68219997+02

                154.4087     201650.50      8249.838      24.45697      9443.012      21.05947      159.82   95.058       19.78
                280.3320   21111615.25      1716.208      24.23241     79064.264       1.03347      159.88    1.299        0.44
                 28.2455         46.33     79836.172      0.             270.136       7.97400       -7.65   -0.106    14550.28
 0.                  0.10334729+01  0.82773087+04  0.48113672+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                  0.39701488-02  0.32428718+04  0.13717719+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.64676713-02  0.31844041+04  0.21105687+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34859261+03 -0.34859261+03  0.35478948+04  0.17997012+01  0.14325875+01  0.38982871+04  0.27386955+03  0.61450919+08
 0.16318274+06  0.95271122+08  0.14728786+03  0.30189420+03
1   0.20423345+02  0.25311101+01  0.             0.26928552+03  0.70603659+04  0.17233559+05 -0.87399998+01  0.10334729+01
2   0.48249038+02  0.26737577+02  0.50069343+02  0.43125591+02  0.50379999+02  0.68219997+02  0.11478675+04  0.89454321+03
3   0.             0.             0.76260868+02  0.19302465+03  0.             0.             0.76260868+02  0.19302465+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.43118350+04  0.10207914+05  0.             0.92370339+00  0.21956355+01
5   0.59500000+02  0.33446947+02  0.33450031+02  0.30837814-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.95462246+00  0.17457287+01  0.28241699+02  0.31038689+02 -0.24553308+01  0.66513883+02  0.22263371+01  0.68219997+02
END DELAY

                154.4087     201650.50      8249.838      24.45697      9443.012      21.05947      159.82   95.058       19.78
                280.3320   21111615.25      1716.208      24.23241     71739.264       1.03347      159.88    1.299        0.44
                 28.2455         46.33      0.            0.             270.136       7.97400       -7.65   -0.106    14550.28
 0.                  0.10334729+01  0.82773087+04  0.48113672+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                  0.39701488-02  0.32428718+04  0.13717719+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.64676713-02  0.31844041+04  0.21105687+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34859261+03 -0.34859261+03  0.35478948+04  0.17997012+01  0.14325875+01  0.38982871+04  0.27386955+03  0.61450919+08
 0.16318274+06  0.95271122+08  0.14728786+03  0.30189420+03
1   0.20423345+02  0.25311101+01  0.             0.26928552+03  0.70603659+04  0.17233559+05 -0.87399998+01  0.10334729+01
2   0.48249038+02  0.26737577+02  0.50069343+02  0.43125591+02  0.50379999+02  0.68219997+02  0.11478675+04  0.89454321+03
3   0.             0.             0.76260868+02  0.19302465+03  0.             0.             0.76260868+02  0.19302465+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.43118350+04  0.10207914+05  0.             0.92370339+00  0.21956355+01
5   0.59500000+02  0.33446947+02  0.33450031+02  0.30837814-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.95462246+00  0.17457287+01  0.28241699+02  0.31038689+02 -0.24553308+01  0.66513883+02  0.22263371+01  0.68219997+02
```

```
CASE  1                        TRAJECTORY ID  -6 NOM                          SECTION  3                        PAGE  25
            TIME           ALTITUDE      VELOCITY RA  FLT PATH R    VELOCITY I    FLT PATH I  AXL FORCE   VEL R AZ     DYNM PRS
            LONGITUDE      R MAGNITUDE   THRST FIXED  PITCH ATT     WEIGHT        AXL LD FCTR NORM FORCE  ALPHA        ATM PRS
            GEOCENT LAT    GRND RANGE    THRST CONTL  PITCH RATE    WEIGHT DOT    MACH NUMBER SIDE FORCE  BETA         REY NUMB
ENGLISH UNITS
   OM XI              AC XI              VMU              RMU              L11              L12              L13              ACOL11
   OM ETA             AC ETA             VMV              RMV              L21              L22              L23              ACOL12
   OM ZET             AC ZET             VMW              RMW              L31              L32              L33              ACOL13
   D LOSS             G LOSS             M LOSS           ML ALF           ML BET           T LOSS           SP IMP           TOT IM
   H FLUX             H PARA             DBLOSS           IISP
1      NPSH              MIX              W.B              W.S              WF               WO               VALVE            ACS
2      PIPFB             PIPOB            PIPFS            PIPOS            FUDEN            OXDEN            F STA            O STA
3      W.FB              W.OB             W.FS             W.OS             W.FV             W.OV             W.F              W.O
4      THINC             FUINC            OXINC            CAPF             CAPO             CAPRA            1GFP             MIXRS
5      PG(F)             PG(O)            PVPO             PSUBA            BMIXR            BTHINC           BFUINC           BOXINC
6      DPF               DPO              WBOI             WSOI             WBHE             WSHE             EDO

                154.4087     201650.50      8195.997      24.45697      9443.012      21.05947     -433.71   95.058       19.52
                280.3320   21111615.25      1716.232      24.23241     71713.478       1.13128      124.29    1.129        0.44
                 28.2455         46.33     79846.475      0.             270.167       7.92195       -6.79   -0.125    14455.32
 0.                  0.11312846+01  0.82773087+04  0.48113672+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                  0.19920512-02  0.32428718+04  0.13717719+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.56752713-02  0.31844041+04  0.21105687+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34859261+03 -0.34859261+03  0.35478948+04  0.17997012+01  0.14325875+01  0.38982871+04  0.30189697+03  0.61450919+08
 0.16000856+06  0.95271122+08  0.14728786+03  0.30189697+03
1   0.22977817+02  0.25312665+01  0.             0.26931731+03  0.70603659+04  0.17233559+05 -0.87399998+01  0.11312846+01
2   0.             0.             0.50292965+02  0.44335771+02  0.50379999+02  0.68219997+02  0.11478675+04  0.89454321+03
3   0.             0.             0.76266491+02  0.19305082+03  0.             0.             0.76266491+02  0.19305082+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.43118350+04  0.10207914+05  0.             0.92370339+00  0.21958043+01
5   0.59500000+02  0.33446947+02  0.33450031+02  0.30837814-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.10448384+01  0.19107077+01  0.             0.31038689+02  0.             0.66513883+02  0.22263371+01  0.68219997+02

                155.0000     203653.50      8209.844      24.35865      9457.783      20.97898     -404.92   95.067       18.23
                280.3456   21113619.25      1716.231      24.23241     71553.740       1.13419      127.25    1.241        0.41
                 28.2445         47.05     79845.105      0.             270.162       7.97886       -6.22   -0.124    13592.99
 0.                  0.11341932+01  0.82952441+04  0.48603607+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                  0.20036338-02  0.32496221+04  0.13909657+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.57686871-02  0.31746712+04  0.21107566+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34870476+03 -0.34870476+03  0.35555454+04  0.18084064+01  0.14412238+01  0.39060585+04  0.30189794+03  0.61499143+08
 0.14963978+06  0.95362663+08  0.14735383+03  0.30189807+03
1   0.23033718+02  0.25312391+01  0.             0.26931178+03  0.70152728+04  0.17119418+05 -0.87399998+01  0.11341932+01
2   0.             0.             0.50254539+02  0.44362254+02  0.50379999+02  0.68219997+02  0.11480202+04  0.89479648+03
3   0.             0.             0.76265517+02  0.19304626+03  0.             0.             0.76265517+02  0.19304626+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.42867617+04  0.10150397+05  0.             0.91925424+00  0.21957748+01
5   0.59459877+02  0.33447193+02  0.33450031+02  0.28381607-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.10426119+01  0.19045229+01  0.             0.30950000+02  0.             0.66100001+02  0.22395918+01  0.68219997+02

                159.3087     218125.75      8313.284      23.65616      9567.742      20.40405     -240.73   95.136       10.84
                280.4453   21128099.75      1716.246      24.23241     70389.771       1.15513      123.77    2.048        0.22
                 28.2366         52.35     79834.342      0.             270.121       8.42067       -3.20   -0.115     8541.26
 0.                  0.11551279+01  0.84272230+04  0.52206165+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
 0.                  0.20774172-02  0.32992947+04  0.15320505+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.                  0.58722843-02  0.31045548+04  0.21121094+08  0.41043884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34933139+03 -0.34933139+03  0.36103626+04  0.19165941+01  0.15489089+01  0.39616106+04  0.30190457+03  0.61850546+08
 0.90084311+05  0.95870252+08  0.14780987+03  0.30190348+03
1   0.23402388+02  0.25310699+01  0.             0.26927134+03  0.66866803+04  0.16287704+05 -0.87399998+01  0.11551279+01
2   0.             0.             0.49970645+02  0.44512656+02  0.50379999+02  0.68223433+02  0.11491491+04  0.89665356+03
3   0.             0.             0.76257718+02  0.19301362+03  0.             0.             0.76257718+02  0.19301362+03
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CASE  1                                   TRAJECTORY ID  -6 NOM                          SECTION  3                              PAGE  26
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.41012739+04  0.97291477+04  0.              0.88634042+00  0.21955852+01
5    0.59167486+02  0.33423701+02  0.33425216+02  0.15149210-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.10238365+01  0.18550807+01  0.             0.30303689+02  0.              0.63083882+02  0.23744497+01  0.68223433+02

                159.3087    218125.75      8313.284     23.65616      9567.742      20.40405     -240.73    95.136        10.84
                280.4453  21128099.75      1716.246     24.23241     70389.771       1.15513      123.77     2.048         0.22
                 28.2366        52.35     79834.342     -2.20000       270.121       8.42067       -3.20    -0.115      8541.26
 0.              0.11551279+01  0.84272230+04  0.52206165+06  0.85425197+00 -0.34985673-00 -0.38451479-00  0.31322806+02
-0.21999999+01   0.20774172-02  0.32992947+04  0.15320505+06  0.31904711-00  0.93680296+00 -0.14355613-00  0.71394691+02
 0.51035678-01   0.58722843-02  0.31045548+04  0.21121094+08  0.41543884-00 -0.45170428-04  0.91188694+00  0.65767592+02
 0.34933139+03  -0.34933139+03  0.36103626+04  0.19165941+01  0.15489089+01  0.39616106+04  0.30190457+03  0.61850546+08
 0.90084311+05   0.95870252+08  0.14780987+03  0.30190348+03
1    0.23402388+02  0.25310699+01  0.             0.26927134+03  0.66866803+04  0.16287704+05 -0.87399998+01  0.11551279+01
2    0.             0.              0.49970645+02  0.44512656+02  0.50379999+02  0.68223433+02  0.11491491+04  0.89665356+03
3    0.             0.              0.76257718+02  0.19301362+03  0.             0.              0.76257718+02  0.19301362+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.41012739+04  0.97291477+04  0.              0.88634042+00  0.21955852+01
5    0.59167486+02  0.33423701+02  0.33425216+02  0.15149210-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.10238365+01  0.18550807+01  0.             0.30303689+02  0.              0.63083882+02  0.23744497+01  0.68223433+02

                160.0000    220427.75      8330.267     23.54823      9585.718      20.31586     -220.70    95.147         9.93
                280.4614  21130402.75      1716.256     25.75317     70203.050       1.15846      211.54     3.693         0.20
                 28.2353        53.21     79832.562     -1.86398       270.115       8.49632       -1.02    -0.079      7904.91
 0.              0.11584573+01  0.84484565+04  0.52789439+06  0.84353074+00 -0.35037944-00 -0.40704778-00  0.32485142+02
-0.18639752+01   0.21293017-02  0.33072957+04  0.15548849+06  0.31570154-00  0.93660752+00 -0.15198052-00  0.71596829+02
 0.23957413-01   0.78697486-02  0.30937630+04  0.21123236+08  0.43449503-00 -0.30531248-03  0.90367296+00  0.64246832+02
 0.34940736+03  -0.34940736+03  0.36190064+04  0.19633409+01  0.15955926+01  0.39703771+04  0.30190460+03  0.61906917+08
 0.82758874+05   0.95929991+08  0.14787928+03  0.30190409+03
1    0.23460144+02  0.25310545+01  0.             0.26926491+03  0.66339670+04  0.16154283+05 -0.87399998+01  0.11584573+01
2    0.             0.              0.49924885+02  0.44527207+02  0.50379999+02  0.68225248+02  0.11493327+04  0.89695308+03
3    0.             0.              0.76256232+02  0.19300868+03  0.             0.              0.76256232+02  0.19300868+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.40711136+04  0.96613691+04  0.              0.88098862+00  0.21955648+01
5    0.59120577+02  0.33410744+02  0.33412109+02  0.13642714-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.10205878+01  0.18467771+01  0.             0.30200000+02  0.              0.62600001+02  0.24029224+01  0.68225248+02

                161.0000    223749.00      8354.940     23.40121      9611.747      20.19612     -194.28    95.163         8.75
                280.4849  21133726.25      1716.271     27.61713     69932.939       1.16327      314.76     5.729         0.17
                 28.2335        54.45     79829.949     -0.91006       270.106       8.60822        0.28    -0.053      7056.37
 0.              0.11632695+01  0.84787816+04  0.53635805+06  0.82969788+00 -0.35072929-00 -0.43426733-00  0.33932283+02
-0.91005512+00   0.21636475-02  0.33187458+04  0.15880153+06  0.31098258-00  0.93647648+00 -0.16217522-00  0.71881545+02
 0.15594873-01   0.10018984-01  0.30792645+04  0.21126322+08  0.46356093-00 -0.49308386-03  0.88606365+00  0.62382870+02
 0.34951314+03  -0.34951314+03  0.36314414+04  0.21248378+01  0.17570381+01  0.39830793+04  0.30190508+03  0.61988464+08
 0.73067620+05   0.96007904+08  0.14797800+03  0.30190482+03
1    0.23543290+02  0.25310324+01  0.             0.26925564+03  0.65577120+04  0.15961279+05 -0.87399998+01  0.11632695+01
2    0.             0.              0.49858636+02  0.44548075+02  0.50379999+02  0.68227872+02  0.11495982+04  0.89738536+03
3    0.             0.              0.76254082+02  0.19300155+03  0.             0.              0.76254082+02  0.19300155+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.40284644+04  0.95633201+04  0.              0.87324652+00  0.21955353+01
5    0.59052716+02  0.33391984+02  0.33393154+02  0.11699340-02  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.10158210+01  0.18346194+01  0.             0.30050000+02  0.              0.61900001+02  0.24270468+01  0.68227872+02

                163.0000    230364.50      8404.691     23.12738      9664.027      19.97398     -149.49    95.194         6.73
                280.5321  21140345.50      1716.299     28.85438     69392.748       1.17289      344.78     7.289         0.12
                 28.2297        55.96     79824.597      0.07325       270.087       8.84144        0.56    -0.044      5589.65
 0.              0.11728942+01  0.85387203+04  0.55337559+06  0.82008888+00 -0.35082106-00 -0.45208021-00  0.34906308+02
 0.73245087-01   0.21824835-02  0.33414143+04  0.16546170+06  0.30751142-00  0.93644205+00 -0.16885535-00  0.72090679+02
-0.65474037-02   0.10447268-01  0.30526414+04  0.21132454+08  0.48258515-00 -0.54337619-03  0.87584761+00  0.61145619+02
 0.34970829+03  -0.34970829+03  0.36560807+04  0.27204499+01  0.23525895+01  0.40085094+04  0.30190611+03  0.62151551+08
 0.56556631+05   0.96137077+08  0.14816984+03  0.30190586+03

CASE  1                                   TRAJECTORY ID  -6 NOM                          SECTION  3                              PAGE  27
1    0.23708567+02  0.25309880+01  0.             0.26923707+03  0.64052080+04  0.15575290+05 -0.87399998+01  0.11728942+01
2    0.             0.              0.49725991+02  0.44589330+02  0.50379999+02  0.68233123+02  0.11501292+04  0.89825276+03
3    0.             0.              0.76249783+02  0.19298729+03  0.             0.              0.76249783+02  0.19298729+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.39467306+04  0.93672343+04  0.              0.85776366+00  0.21954764+01
5    0.58916996+02  0.33354362+02  0.33355236+02  0.85334075-03  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.10360660+01  0.18098151+01  0.             0.29750000+02  0.              0.60500000+02  0.24109308+01  0.68233123+02

                168.0000    246757.50      8532.922     22.45741      9798.362      19.43046      -74.14    95.273         3.34
                280.6516  21156748.00      1716.364     27.20429     68042.428       1.19708      141.34     6.433         0.05
                 28.2201        63.31     79810.641      0.37595       270.040       9.48890       -0.09    -0.065      3033.86
 0.              0.11970793+01  0.86911179+04  0.59644771+06  0.83294939+00 -0.35039131-00 -0.42827427-00  0.33597083+02
 0.37595182-00   0.22110290-02  0.33989660+04  0.18231176+06  0.31175831-00  0.93660301+00 -0.15993937-00  0.71834774+02
-0.36424489-02   0.63788415-02  0.29865369+04  0.21147554+08  0.45716456-00 -0.29660572-03  0.88938079+00  0.62795705+02
 0.35003102+03  -0.35003102+03  0.37163908+04  0.43700588+01  0.40019497+01  0.40707919+04  0.30190788+03  0.62559219+08
 0.28477112+05   0.96343142+08  0.14861978+03  0.30190654+03
1    0.24119087+02  0.25308766+01  0.             0.26919046+03  0.60239859+04  0.14610443+05 -0.87399998+01  0.11970793+01
2    0.             0.              0.49392620+02  0.44691255+02  0.50379999+02  0.68246248+02  0.11514863+04  0.90041631+03
3    0.             0.              0.76238994+02  0.19295149+03  0.             0.              0.76238994+02  0.19295149+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.37378577+04  0.88655192+04  0.              0.81819680+00  0.21953283+01
5    0.58577696+02  0.33260073+02  0.33260441+02  0.36742890-03  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.97944643+00  0.17452008+01  0.             0.29000000+02  0.              0.57000001+02  0.23614687+01  0.68246248+02

                173.0000    262935.00      8667.308     21.77660      9938.794      18.87638      -33.81    95.354         1.52
                280.7735  21172936.00      1716.424     25.85226     66692.342       1.22170       56.70     5.888         0.02
                 28.2101        69.79     79796.182      0.13118       269.994      10.23895       -0.08    -0.070      1502.51
 0.              0.12217030+01  0.88493139+04  0.64029668+06  0.84291422+00 -0.35017277-00 -0.40849995-00  0.32550854+02
 0.13118166-00   0.22663311-02  0.34585969+04  0.19945491+06  0.31520066-00  0.93668472+00 -0.15254258-00  0.71627072+02
-0.36724018-02   0.46837130-02  0.29167402+04  0.21162312+08  0.43605215-00 -0.17908713-03  0.83992008+00  0.64147735+02
 0.35017837+03  -0.35017837+03  0.37748467+04  0.56357891+01  0.52672680+01  0.41306608+04  0.30190859+03  0.62966818+08
 0.13192163+05   0.96443556+08  0.14903213+03  0.30190550+03
1    0.24532197+02  0.25307646+01  0.             0.26914373+03  0.56428178+04  0.13645774+05 -0.87399998+01  0.12217030+01
2    0.             0.              0.49057689+02  0.44794489+02  0.50379999+02  0.68259373+02  0.11528673+04  0.90257856+03
3    0.             0.              0.76228172+02  0.19291556+03  0.             0.              0.76228172+02  0.19291556+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.35253118+04  0.83602477+04  0.              0.77793416+00  0.21951795+01
5    0.58238396+02  0.33165509+02  0.33165653+02  0.14404228-03  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.95040452+00  0.16770925+01  0.             0.28250000+02  0.              0.53500000+02  0.23510952+01  0.68259373+02

                178.0000    278892.50      8807.531     21.10842     10084.821      18.33191      -13.16    95.435         0.59
                280.8977  21188903.75      1716.482     25.33970     65342.491       1.24703       23.57     6.172         0.01
                 28.1997        76.39     79781.431      0.06841       269.947      10.40460        0.00    -0.058       575.32
 0.              0.12470329+01  0.90118571+04  0.58494800+06  0.84651962+00 -0.35020958-00 -0.40394295-00  0.32164881+02
 0.68414340-01   0.23314607-02  0.35198447+04  0.21690040+06  0.31659333-00  0.93667091+00 -0.14971690-00  0.71542970+02
 0.13597298-01   0.40690421-02  0.28461806+04  0.21176720+08  0.42798414-00 -0.19752204-03  0.93378489+00  0.64660332+02
 0.35024136+03  -0.35024136+03  0.38314491+04  0.69064347+01  0.65374738+01  0.41885968+04  0.30190866+03  0.63374343+08
 0.52161402+04   0.96486602+08  0.14941195+03  0.30190358+03
1    0.24954398+02  0.25306518+01  0.             0.26909678+03  0.52617540+04  0.12681287+05 -0.87399998+01  0.12470329+01
2    0.             0.              0.48721098+02  0.44902102+02  0.50379999+02  0.68272498+02  0.11542840+04  0.90473988+03
3    0.             0.              0.76217312+02  0.19287948+03  0.             0.              0.76217312+02  0.19287948+03
4    0.29639999+03 -0.73239998+01  0.94419996+01  0.33072799+04  0.78549974+04  0.              0.73663230+00  0.21950299+01
5    0.57899397+02  0.33070803+02  0.33070858+02  0.54276695-04  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6    0.91860471+00  0.16057055+01  0.             0.27500000+02  0.              0.50000001+02  0.24605863+01  0.68272498+02

                181.3087    289334.00      8903.474     20.67905     10184.434      17.98193       -7.10    95.489         0.32
                280.9813  21199352.25      1716.520     25.09439     64449.358       1.26426       13.57     6.442         0.00
                 28.1927        80.84     79771.562      0.07188       269.916      10.51794        0.06    -0.024       307.33
 0.              0.12642556+01  0.91214820+04  0.71494678+06  0.84805732+00 -0.35062304-00 -0.39731555-00  0.31999002+02
 0.71884398-01   0.23780315-02  0.35612029+04  0.22861488+06  0.31768861-00  0.93651610+00 -0.14835876-00  0.71476801+02
 0.10012430-02   0.39283579-02  0.27998387+04  0.21186060+08  0.42411068-00 -0.40583587-03  0.90560890+00  0.64905614+02
```

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CASE  1                            TRAJECTORY ID  -6 NOM                          SECTION  3                         PAGE  28
 0.35026081+03 -0.35026081+03  0.38679396+04  0.78460949+01  0.74769378+01  0.42260165+04  0.30190834+03  0.63643980+08
 0.28474497+04  0.96499574+08  0.14964754+03  0.30190206+03
1   0.25240354+02  0.25305762+01  0.             0.26906557+03  0.50095326+04  0.12043138+05 -0.87399998+01  0.12642556+01
2   0.             0.             0.48497241+02  0.44976475+02  0.50379999+02  0.68281183+02  0.11552474+04  0.90617033+03
3   0.             0.             0.76210101+02  0.19285547+03  0.             0.             0.76210101+02 -0.19285547+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.31589952+04  0.75204936+04  0.             0.70854267+00  0.21949299+01
5   0.57674565+02  0.33008104+02  0.33008133+02  0.28681663-04  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.89577910+00  0.15566283+01  0.             0.27003689+02  0.             0.47683884+02  0.26319934+01  0.68281183+02
WEIGHT JETTISONED AT THIS POINT

               181.3087    289334.00       8903.474     20.67905     10184.434      17.98193       -7.10    95.489        0.32
               280.9813  21199352.25       1716.520     25.09439     63224.358       1.26426       13.57     6.442        0.00
                28.1927        80.84      79771.562      0.07188       269.916      10.51794        0.06    -0.024      307.33
 0.             0.12642556+01  0.91214820+04  0.71494678+06  0.84805732+00 -0.35062304-00 -0.39731555-00  0.31999002+02
 0.71884398-01  0.23780315-02  0.35612029+04  0.22861488+06  0.31768861-00  0.93651610+00 -0.14835876-00  0.71476801+02
 0.10012430-02  0.39283579-02  0.27998387+04  0.21186060+08  0.42411068-00 -0.40583587-03  0.90560890+00  0.64905614+02
 0.35026081+03 -0.35026081+03  0.38679096+04  0.78460949+01  0.74769378+01  0.42260165+04  0.30190834+03  0.63643980+08
 0.28474497+04  0.96499574+08  0.14964754+03  0.30190206+03
1   0.25240354+02  0.25305762+01  0.             0.26906557+03  0.50095326+04  0.12043138+05 -0.87399998+01  0.12642556+01
2   0.             0.             0.48497241+02  0.44976475+02  0.50379999+02  0.68281183+02  0.11552474+04  0.90617033+03
3   0.             0.             0.76210101+02  0.19285547+03  0.             0.             0.76210101+02  0.19285547+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.31589952+04  0.75204936+04  0.             0.70854267+00  0.21949299+01
5   0.57674565+02  0.33008104+02  0.33008133+02  0.28681663-04  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.89577910+00  0.15566283+01  0.             0.27003689+02  0.             0.47683884+02  0.26319934+01  0.68281183+02

               182.0000    291503.75       8924.109     20.59091     10205.817      17.91017       -6.25    95.500        0.28
               280.9989  21201523.75       1716.533     25.04469     63037.778       1.29258       12.10     6.499        0.00
                28.1912        81.77      79771.844      0.08992       269.916      10.54232        0.06    -0.022      269.83
 0.             0.12925838+01  0.91448248+04  0.72126015+06  0.84839735+00 -0.35063328-00 -0.39657991-00  0.31962217+02
 0.89917599-01  0.24341194-02  0.35700143+04  0.23107963+06  0.31782846-00  0.93651225+00 -0.14808318-00  0.71468369+02
 0.67729106-03  0.39891905-02  0.27903187+04  0.21187992+08  0.42332511-00 -0.41095445-03  0.90597638+00  0.64955304+02
 0.35026365+03 -0.35026365+03  0.38754289+04  0.80557359+01  0.76865456+01  0.42337482+04  0.30190811+03  0.63700309+08
 0.25115620+04  0.96501426+08  0.14969530+03  0.30190235+03
1   0.25921825+02  0.25305962+01  0.             0.26906629+03  0.49568520+04  0.11909827+05 -0.87399998+01  0.12925838+01
2   0.             0.             0.48501427+02  0.45286831+02  0.50379999+02  0.68282998+02  0.11554509+04  0.90646902+03
3   0.             0.             0.76209874+02  0.19285642+03  0.             0.             0.76209874+02  0.19285642+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.31276830+04  0.74506378+04  0.             0.70261121+00  0.21949475+01
5   0.57627656+02  0.32995000+02  0.32995025+02  0.25123261-04  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.90818389+00  0.15762940+01  0.             0.26900000+02  0.             0.47200003+02  0.26778010+01  0.68282998+02

               183.0000    294636.00       8954.554     20.46453     10237.331      17.80737       -5.20    95.517        0.23
               281.0244  21204658.50       1716.545     24.95478     62767.868       1.29811       10.21     6.561        0.00
                28.1890        83.13      79768.860      0.08849       269.907      10.57828        0.05    -0.020      223.63
 0.             0.12981115+01  0.91790634+04  0.73042207+06  0.84901454+00 -0.35064331-00 -0.39524798-00  0.31895353+02
 0.88492753-01  0.24486479-02  0.35829388+04  0.23465610+06  0.31807154-00  0.93650848+00 -0.14758420-00  0.71453660+02
-0.68975474-03  0.39725973-02  0.27767406+04  0.21190776+08  0.42190278-00 -0.41595022-03  0.93663961+00  0.65045222+02
 0.35026724+03 -0.35026724+03  0.38862474+04  0.83684982+01  0.79992602+01  0.42448831+04  0.30190804+03  0.63781796+08
 0.20958211+04  0.96503729+08  0.14976356+03  0.30190188+03
1   0.26014444+02  0.25305734+01  0.             0.26905686+03  0.48806433+04  0.11716975+05 -0.87399998+01  0.12981115+01
2   0.             0.             0.48433859+02  0.45312268+02  0.50379999+02  0.68285622+02  0.11557452+04  0.90690088+03
3   0.             0.             0.76207697+02  0.19284917+03  0.             0.             0.76207697+02  0.19284917+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.30823881+04  0.73496276+04  0.             0.69403097+00  0.21949174+01
5   0.57559796+02  0.32976049+02  0.32976070+02  0.20751478-04  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.90092963+00  0.15609423+01  0.             0.26750001+02  0.             0.46500003+02  0.27460339+01  0.68285622+02

               186.0000    303987.00       9047.330     20.09106     10333.243      17.50355       -2.92    95.566        0.13
               281.1017  21214016.50       1716.579     24.68402     61958.189       1.31497        5.97     6.743        0.00
                28.1824        87.24      79759.895      0.09144       269.879      10.53229        0.03    -0.012      121.25


CASE  1                            TRAJECTORY ID  -6 NOM                          SECTION  3                         PAGE  29
 0.             0.13149681+01  0.92827685+04  0.75811445+06  0.85085436+00 -0.35068805-00 -0.39123151-00  0.31695283+02
 0.91440527-01  0.24948777-02  0.36220878+04  0.24546350+06  0.31881469-00  0.93649168+00 -0.14607940-00  0.71408743+02
 0.58475741-02  0.39585381-02  0.27361633+04  0.21199045+08  0.41761364-00 -0.43800105-03  0.93862321+00  0.65315980+02
 0.35027485+03 -0.35027485+03  0.39182686+04  0.93506256+01  0.89812497+01  0.42779140+04  0.30190774+03  0.64026237+08
 0.11881946+04  0.96508566+08  0.14996260+03  0.30190043+03
1   0.26296780+02  0.25305051+01  0.             0.26902858+03  0.46520299+04  0.11138459+05 -0.87399998+01  0.13149681+01
2   0.             0.             0.48230994+02  0.45390715+02  0.50379999+02  0.68293498+02  0.11566319+04  0.90819620+03
3   0.             0.             0.76201160+02  0.19282742+03  0.             0.             0.76201160+02  0.19282742+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.29458997+04  0.70466115+04  0.             0.66817594+00  0.21948269+01
5   0.57356217+02  0.32919181+02  0.32919193+02  0.11772735-04  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.87863000+00  0.15140764+01  0.             0.26300000+02  0.             0.44400002+02  0.29777227+01  0.68293498+02

               191.0000    319423.00       9206.830     19.48720     10497.743      17.01211       -1.15    95.649        0.05
               281.2326  21229463.75       1716.635     24.19772     60608.915       1.34402        2.48     6.995        0.00
                28.1711        94.20      79744.812      0.09911       269.831      10.19308        0.02     0.015       42.90
 0.             0.13440230+01  0.94590014+04  0.80496707+06  0.85402524+00 -0.35097425-00 -0.38399677-00  0.31347675+02
 0.99112596-01  0.25751259-02  0.36666750+04  0.26373969+06  0.32035767-00  0.93638434+00 -0.14336637-00  0.71315443+02
 0.47676221-02  0.40204541-02  0.26690232+04  0.21212558+08  0.40988676-00 -0.57761485-03  0.91213483+00  0.65802276+02
 0.35028104+03 -0.35028104+03  0.39703391+04  0.11126779+02  0.10757251+02  0.43317468+04  0.30193708+03  0.64433579+08
 0.47513359+03  0.96512431+08  0.15027665+03  0.30189792+03
1   0.26783232+02  0.25303893+01  0.             0.26898105+03  0.42710514+04  0.10174413+05 -0.87399998+01  0.13440230+01
2   0.             0.             0.47890190+02  0.45529073+02  0.50379999+02  0.68306622+02  0.11581784+04  0.91035407+03
3   0.             0.             0.76190196+02  0.19279086+03  0.             0.             0.76190196+02  0.19279086+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.27078870+04  0.65416656+04  0.             0.62308910+00  0.21946740+01
5   0.57016917+02  0.32824400+02  0.32824405+02  0.49450543-05  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.83744611+00  0.14331844+01  0.             0.25550000+02  0.             0.40900003+02  0.36948363+01  0.68306622+02

               196.0000    334680.50       9372.562     18.90572     10668.210      16.53857       -0.50    95.732        0.02
               281.3662  21244733.50       1716.691     23.67039     59259.879       1.37437        1.12     7.186        0.00
                28.1594       101.31      79729.581      0.11358       269.783       9.92082        0.01     0.057       16.98
 0.             0.13743740+01  0.96396844+04  0.85271186+06  0.85731477+00 -0.35148417-00 -0.37612160-00  0.30983590+02
 0.11357825-00  0.26588827-02  0.37570221+04  0.28235316+06  0.32222135-00  0.93619283+00 -0.14040973-00  0.71202683+02
 0.97784442-03  0.41359941-02  0.26023015+04  0.21225736+08  0.40147445-00 -0.81901868-03  0.91586842+00  0.66329613+02
 0.35028367+03 -0.35028367+03  0.40207514+04  0.13059295+02  0.12689691+02  0.43840943+04  0.30190632+03  0.64840847+08
 0.21028833+03  0.96514044+08  0.15057082+03  0.30189535+03
1   0.27291346+02  0.25302713+01  0.             0.26893308+03  0.38901278+04  0.92105512+04 -0.87399998+01  0.13743740+01
2   0.             0.             0.47546277+02  0.45677790+02  0.50379999+02  0.68319748+02  0.11598001+04  0.91251057+03
3   0.             0.             0.76179154+02  0.19275393+03  0.             0.             0.76179154+02  0.19275393+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.24934527+04  0.60275139+04  0.             0.57580996+00  0.21945188+01
5   0.56677616+02  0.32729608+02  0.32729610+02  0.22724193-05  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.79137824+00  0.13486494+01  0.             0.24800000+02  0.             0.37400003+02  0.37401348+01  0.68319748+02

               201.0000    349769.75       9544.706     18.34569     10844.841      16.08217       -0.24    95.815        0.01
               281.5025  21259835.00       1716.747     23.10591     57911.084       1.40612        0.55     7.321        0.00
                28.1472       108.57      79714.170      0.11963       269.735       9.70136        0.01     0.064        7.37
 0.             0.14061235+01  0.98250741+04  0.90137172+06  0.86097576+00 -0.35149121-00 -0.36765713-00  0.30573680+02
 0.11962721-00  0.27460136-02  0.38272198+04  0.30131300+06  0.32359658-00  0.93619013+00 -0.13722862-00  0.71119428+02
-0.40222596-03  0.42746684-02  0.25359211+04  0.21238582+08  0.39243195-00 -0.82201615-03  0.91977920+00  0.66894092+02
 0.35028490+03 -0.35028490+03  0.40695833+04  0.15127476+02  0.14757843+02  0.44349957+04  0.30190551+03  0.65248039+08
 0.10114103+03  0.96514784+08  0.15084740+03  0.30189272+03
1   0.27823072+02  0.25301506+01  0.             0.26888457+03  0.35092598+04  0.82468744+04 -0.87399998+01  0.14061235+01
2   0.             0.             0.47198521+02  0.45637805+02  0.50379999+02  0.68332873+02  0.11615101+04  0.91466457+03
3   0.             0.             0.76168017+02  0.19271655+03  0.             0.             0.76168017+02  0.19271655+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.23027137+04  0.54783222+04  0.             0.52595455+00  0.21943606+01
5   0.56338317+02  0.32634813+02  0.32634815+02  0.11238603-05  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.73955701+00  0.12602977+01  0.             0.24050000+02  0.             0.33900003+02  0.25800503+01  0.68332873+02
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CASE  1                         TRAJECTORY ID  -6 NOM                          SECTION  3                        PAGE  30
                206.0000    364700.25      9723.453     17.80647     11027.844     15.64237      -0.10   95.899        0.00
                281.6417  21274778.25      1716.802     22.51334     56562.766      1.43908       0.24    7.409        0.00
                 28.1346       115.97     79682.266      0.12836       269.259      8.43687       0.00    0.098        2.40
 0.               0.14390811+01  0.10015424+05  0.95097085+06  0.86456046+00 -0.35191172-00 -0.35973441-00  0.30167446+02
 0.12835882-00   0.28361990-02  0.38993474+04  0.32062856+06  0.32545453-00  0.93603192+00 -0.13387280-00  0.71006884+02
 0.45723534-02   0.44243041-02  0.24697582+04  0.21251096+08  0.38289859-00 -0.10105548-02  0.92378833+00  0.67486655+02
 0.35028546+03  -0.35028546+03  0.41168907+04  0.17314699+02  0.16945055+02  0.44844909+04  0.30191325+03  0.65655146+08
 0.43540091+02   0.96515116+08  0.15110826+03  0.30230708+03
1  0.28369842+02  0.24983611+01  0.              0.26840949+03  0.31281377+04  0.72839285+04 -0.81318308+01  0.14390811+01
2  0.             0.              0.46844766+02  0.46005064+02  0.50379999+02  0.68345997+02  0.11633391+04  0.91683764+03
3  0.             0.              0.76724353+02  0.19168514+03  0.             0.              0.76724353+02  0.19168514+03
4  0.28018215+03 -0.67563753+01  0.84486567+01  0.20987025+04  0.49240461+04  0.              0.47263004-00  0.21941978+01
5  0.55999017+02  0.32540026+02  0.32540027+02  0.63436584-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.68014067+00  0.11663762+01  0.              0.23300000+02  0.                             0.30400003+02  0.15638136+01  0.68345997+02

                206.3087    365617.25      9734.709     17.77383     11039.354     15.61574      -0.10   95.904        0.00
                281.6504  21275696.25      1716.805     22.47371     56479.668      1.44104       0.23    7.411        0.00
                 28.1338       116.44     79673.356      0.12836       269.049      8.37419       0.00    0.100        2.26
 0.               0.14410408+01  0.10027342+05  0.95406486+06  0.86479969+00 -0.35193302-00 -0.35813633-00  0.30140159+02
 0.12835882-00   0.28416412-02  0.39036680+04  0.32183315+06  0.32557010-00  0.93602388+00 -0.13364764-00  0.70999882+02
 0.45723534-02   0.44235621-02  0.24656755+04  0.21251858+08  0.38225950-00 -0.10199808-02  0.92405294+00  0.67526287+02
 0.35028548+03  -0.35028548+03  0.41197631+04  0.17453144+02  0.17083501+02  0.44875017+04  0.30191687+03  0.65680275+08
 0.41690289+02   0.96515129+08  0.15112390+03  0.30251101+03
1  0.28401648+02  0.24830634+01  0.              0.26819853+03  0.31044059+04  0.72248250+04 -0.78349170+01  0.14410408+01
2  0.             0.              0.46822464+02  0.46014468+02  0.50379999+02  0.68346808+02  0.11634586+04  0.91697521+03
3  0.             0.              0.77000763+02  0.19119778+03  0.             0.              0.77000763+02  0.19119778+03
4  0.27226445+03 -0.64792557+01  0.79636977+01  0.20853673+04  0.48889490+04  0.              0.46914447-00  0.21941874+01
5  0.55978066+02  0.32534175+02  0.32534175+02  0.61588511-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.67605635+00  0.11601587+01  0.              0.23253689+02  0.                             0.30183885+02  0.15067148+01  0.68346808+02
WEIGHT JETTISONED AT THIS POINT

                207.0000    367668.25      9760.589     17.70149     11065.800     15.55684      -0.09   95.916        0.00
                281.6699  21277749.00      1716.823     22.38498     54288.849      1.49893       0.20    7.415        0.00
                 28.1320       117.48     79659.021      0.12087       268.619      8.24060       0.00    0.104        1.99
 0.               0.14989302+01  0.10054611+05  0.96100571+06  0.86533385+00 -0.35198074-00 -0.35679666-00  0.30079150+02
 0.12087227-00   0.29594671-02  0.39142114+04  0.32453528+06  0.32582831-00  0.93600591+00 -0.13314326-00  0.70984234+02
 0.92616997-03   0.46192309-02  0.24567606+04  0.21253559+08  0.38082798-00 -0.10410284-02  0.92464380+00  0.67615020+02
 0.35028552+03  -0.35028552+03  0.41261741+04  0.17769893+02  0.17400250+02  0.44942295+04  0.30193060+03  0.65736531+08
 0.37948601+02   0.96515156+08  0.15115870+03  0.30294100+03
1  0.29769368+02  0.24513932+01  0.              0.26776940+03  0.30509653+04  0.70930339+04 -0.72120311+01  0.14989302+01
2  0.             0.              0.46870019+02  0.46650897+02  0.50379999+02  0.68348623+02  0.11637279+04  0.91728197+03
3  0.             0.              0.77582988+02  0.19018641+03  0.             0.              0.77562988+02  0.19018641+03
4  0.25565416+03 -0.58978956+01  0.69463174+01  0.20553371+04  0.48106823+04  0.              0.46129516-00  0.21942379+01
5  0.55931157+02  0.32521068+02  0.32521068+02  0.57751770-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.69144920+00  0.11886091+01  0.              0.23150001+02  0.                             0.29700002+02  0.13869290+01  0.68348623+02

                208.0000    370630.75      9799.108     17.59818     11105.125     15.47292      -0.08   95.933        0.00
                281.6982  21280714.25      1716.834     22.26410     54020.377      1.50588       0.18    7.426        0.00
                 28.1294       118.98     79632.207      0.12575       268.341      8.06192       0.00    0.106        1.67
 0.               0.15058836+01  0.10094977+05  0.97108049+06  0.86607894+00 -0.35199472-00 -0.35497034-00  0.29993864+02
 0.12575091-00   0.29785111-02  0.39295246+04  0.32845714+06  0.32612360-00  0.93600064+00 -0.13245557-00  0.70966338+02
 0.21442881-03   0.46517240-02  0.24441916+04  0.21256009+08  0.37887646-00 -0.10471687-02  0.92544514+00  0.67735894+02
 0.35028558+03  -0.35028558+03  0.41353997+04  0.18239368+02  0.17869726+02  0.45039246+04  0.30195422+03  0.65817893+08
 0.33355403+02   0.96515191+08  0.15120859+03  0.30315515+03
1  0.29882935+02  0.24126892+01  0.              0.26749123+03  0.29729484+04  0.69034287+04 -0.64018144+01  0.15058836+01
2  0.             0.              0.45797609+02  0.46686390+02  0.50379999+02  0.68351247+02  0.11641209+04  0.91772326+03
3  0.             0.              0.78376769+02  0.18911447+03  0.             0.              0.78376769+02  0.18911447+03

CASE  1                         TRAJECTORY ID  -6 NOM                          SECTION  3                        PAGE  31
4  0.23205443+03 -0.51018143+01  0.58821772+01  0.20114967+04  0.46980857+04  0.              0.44983616-00  0.21942041+01
5  0.55863297+02  0.32502112+02  0.32502113+02  0.52844182-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.67740090+00  0.11676831+01  0.              0.23000000+02  0.                             0.29000004+02  0.12311181+01  0.68351247+02

                209.0000    373568.25      9837.904     17.49568     11144.720     15.38965      -0.07   95.950        0.00
                281.7266  21283674.00      1716.845     22.13835     53752.112      1.51293       0.16    7.431        0.00
                 28.1268       120.59     79607.156      0.13385       268.186      7.89776       0.00    0.107        1.42
 0.               0.15129334+01  0.10135562+05  0.98119572+06  0.86685462+00 -0.35199796-00 -0.35306863-00  0.29904841+02
 0.13384569-00   0.30088859-02  0.39449204+04  0.33239435+06  0.32641702-00  0.93599941+00 -0.13173947-00  0.70948552+02
 0.24155365-02   0.46870669-02  0.24316227+04  0.21258447+08  0.37684440-00 -0.10485828-02  0.92627446+00  0.67861644+02
 0.35028564+03  -0.35028564+03  0.41445680+04  0.18712375+02  0.18342733+02  0.45135660+04  0.30197844+03  0.65899230+08
 0.29531799+02   0.96515222+08  0.15125797+03  0.30323774+03
1  0.29998749+02  0.23810167+01  0.              0.26733557+03  0.28942306+04  0.67147318+04 -0.56741143+01  0.15129334+01
2  0.             0.              0.46725269+02  0.46722947+02  0.50379999+02  0.68353873+02  0.11645174+04  0.91816241+03
3  0.             0.              0.79069579+02  0.18826599+03  0.             0.              0.79069579+02  0.18826599+03
4  0.21022343+03 -0.44067028+01  0.50415257+01  0.19672632+04  0.45860267+04  0.              0.43827440-00  0.21941702+01
5  0.55795436+02  0.32483149+02  0.32483150+02  0.48574354-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.66308290+00  0.11471187+01  0.              0.22850000+02  0.                             0.28300003+02  0.10911758+01  0.68353873+02

                214.0000    388301.50     10036.199     16.99455     11346.886     14.98222      -0.04   96.035        0.00
                281.8706  21298461.00      1716.898     21.44600     52411.917      1.55108       0.09    7.386        0.00
                 28.1135       128.16     79578.940      0.14150       268.055      7.24296       0.00    0.134        0.69
 0.               0.15510827+01  0.10341896+05  0.10323869+07  0.87092204+00 -0.35233206-00 -0.34256937-00  0.29434034+02
 0.14149765-00   0.31189401-02  0.40232461+04  0.35231378+06  0.32834492-00  0.93587348+00 -0.12778345-00  0.70831650+02
 0.46780062-02   0.48744692-02  0.23686475+04  0.21270448+08  0.36562414-00 -0.11914352-02  0.93076029+00  0.68554000+02
 0.35028584+03  -0.35028584+03  0.41695660+04  0.21108971+02  0.20739322+02  0.45609608+04  0.30208367+03  0.66305622+08
 0.17538199+02   0.96515333+08  0.15149727+03  0.30327984+03
1  0.30612904+02  0.23648726+01  0.              0.26720548+03  0.24942064+04  0.57788116+04 -0.52825410+01  0.15510827+01
2  0.             0.              0.46354384+02  0.46922477+02  0.50379999+02  0.68366998+02  0.11667332+04  0.92055805+03
3  0.             0.              0.79410282+02  0.18779520+03  0.             0.              0.79410282+02  0.18779520+03
4  0.15847623+03 -0.40542868+01  0.46107950+01  0.17683508+04  0.41181502+04  0.              0.37367284-00  0.21939945+01
5  0.55456137+02  0.32388362+02  0.32388362+02  0.33674715-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.57959759+00  0.10292506+01  0.              0.22100000+02  0.                             0.24800003+02  0.10158733+01  0.68366998+02

                219.0000    402897.50     10242.330     16.51169     11556.700     14.58920      -0.03   96.120        0.00
                282.0177  21313011.25      1716.950     20.72589     51070.579      1.59259       0.06    7.298        0.00
                 28.0997       136.01     79618.054      0.14868       268.463      6.77798       0.00    0.151        0.39
 0.               0.15925878+01  0.10554569+05  0.10846253+07  0.87507687+00 -0.35253412-00 -0.33159755-00  0.28945925+02
 0.14868440-00   0.32445162-02  0.41046603+04  0.37263099+06  0.33014162-00  0.93579722+00 -0.12364524-00  0.70722628+02
 0.68798545-02   0.50744790-02  0.23054434+04  0.21282133+08  0.35389759-00 -0.12750129-02  0.93528176+00  0.69274104+02
 0.35028595+03  -0.35028595+03  0.42331943+04  0.23534980+02  0.23165294+02  0.46070153+04  0.30216131+03  0.66712229+08
 0.11604921+02   0.96515403+08  0.15172499+03  0.30296516+03
1  0.31243099+02  0.24487858+01  0.              0.26761317+03  0.21025632+04  0.48333666+04 -0.71674521+01  0.15925878+01
2  0.             0.              0.45974880+02  0.47129727+02  0.50379999+02  0.68380123+02  0.11691549+04  0.92332489+03
3  0.             0.              0.77596344+02  0.19001682+03  0.             0.              0.77596344+02  0.19001682+03
4  0.25446539+03 -0.58562885+01  0.66735051+01  0.15687088+04  0.36714283+04  0.              0.30306775-00  0.21938122+01
5  0.55116837+02  0.32293567+02  0.32293567+02  0.24975089-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  0.48266918-00  0.88263738+00  0.              0.21350000+02  0.                             0.21300003+02  0.13783561+01  0.68380123+02

                224.0000    417385.25     10456.507     16.04618     11774.388     14.20984      -0.02   96.207        0.00
                282.1682  21327513.75      1717.000     19.96525     49728.146      1.63527       0.04    7.155        0.00
                 28.0854       144.02     79602.794      0.15789       268.472      6.43295       0.00    0.181        0.24
 0.               0.16352744+01  0.10773845+05  0.11379435+07  0.87924247+00 -0.35292993-00 -0.31995282-00  0.28448881+02
 0.15788649-00   0.33733498-02  0.41874558+04  0.39335868+06  0.33217595-00  0.93564775+00 -0.11924940-00  0.70599100+02
 0.74087796-02   0.52800082-02  0.22416622+04  0.21293502+08  0.34145017-00 -0.14314467-02  0.93989720+00  0.70034749+02
 0.35028603+03  -0.35028603+03  0.42755014+04  0.25962993+02  0.25593219+02  0.46517593+04  0.30221468+03  0.67118864+08
 0.82780285+01   0.96515450+08  0.15194194+03  0.30289910+03
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CASE  1                                     TRAJECTORY ID  -6 NOM                            SECTION  3                               PAGE  32
1   0.31816681+02  0.24532358+01  0.               0.26762151+03  0.17147873+04  0.38829595+04 -0.72587328+01  0.16352744+01
2   0.             0.             0.45577598+02  0.47309927+02  0.50379999+02  0.68393248+02  0.11718633+04  0.92656039+03
3   0.             0.             0.77498764+02  0.19012275+03  0.             0.             0.77498764+02  0.19012275+03
4   0.25689954+03 -0.59414838+01  0.70225968+01  0.13521483+04  0.31654681+04  0.             0.22410530-00  0.21956163+01
5   0.54777537+02  0.32198779+02  0.32198780+02  0.19408207-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.36646524-00  0.69702718+00  0.               0.20600001+02  0.             0.17800003+02  0.13959102+01  0.68393248+02

             229.0000      431773.50      10678.881      15.59670      12000.113      13.84298       -0.01     96.294        0.00
             282.3220   21341917.00       1717.047      19.15724      48987.723       1.67849        0.03      6.951        0.00
              28.0705        152.22      79501.671       0.17314        267.917       6.16954        0.00      0.203        0.16
 0.              0.16784852+01  0.10999919+05  0.11923750+07  0.88354760+00 -0.35322741-00 -0.30752338-00  0.27926683+02
 0.17314158-00  0.35041124-02  0.42735660+04  0.41451009+06  0.33414046-00  0.93553526+00 -0.11455058-00  0.70479721+02
-0.32806622-02  0.54288142-02  0.21774130+04  0.21304550+08  0.32816172-00 -0.15450656-02  0.94461869+00  0.70842762+02
 0.35028608+03 -0.35028608+03  0.43165328+04  0.28356693+02  0.27986711+02  0.46951756+04  0.30228087+03  0.67525212+08
 0.62404833+01  0.96515484+08  0.15214936+03  0.30314880+03
1   0.32274107+02  0.23394706+01  0.               0.26706696+03  0.13208641+04  0.29407087+04 -0.45678202+01  0.16784852+01
2   0.             0.             0.45149885+02  0.47435614+02  0.50379999+02  0.68406373+02  0.11750752+04  0.93055688+03
3   0.             0.             0.79972843+02  0.18709411+03  0.             0.             0.79972843+02  0.18709411+03
4   0.17487370+03 -0.34542561+01  0.40406920+01  0.10992467+04  0.25553665+04  0.             0.13046165-00  0.21953974+01
5   0.54438237+02  0.32103984+02  0.32103985+02  0.15606882-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6   0.21897798-00  0.45004814-00  0.               0.19850001+02  0.             0.14300003+02  0.87842698+00  0.68406373+02

             239.0000      460274.25      11149.232      14.73948      12476.754      13.14133       -0.01     96.471        0.00
             282.6401   21370450.00       1717.123      17.39244      45701.932       1.77879        0.01      6.363        0.00
              28.0391        169.19      79577.545       0.19110        269.206       5.80454        0.00      0.245        0.08
 0.              0.17787872+01  0.11473755+05  0.13047139+07  0.89236215+00 -0.35382209-00 -0.28017161-00  0.26828408+02
 0.19110361-00  0.37924416-02  0.44542778+04  0.45813774+06  0.33813572-00  0.93531007+00 -0.10419731-00  0.70236667+02
 0.74105908-02  0.59144875-02  0.20449335+04  0.21325665+08  0.29891498-00 -0.17542538-02  0.95427647+00  0.72607956+02
 0.35028615+03 -0.35028615+03  0.43949299+04  0.32874697+02  0.32503978+02  0.47780908+04  0.30223212+03  0.68336203+08
 0.39934102+01  0.96515530+08  0.15253848+03  0.30186748+03
1   0.32138748+02  0.25289354+01  0.               0.26945577+03  0.52311207+03  0.10611705+04 -0.87399998+01  0.17787872+01
2   0.             0.             0.44132585+02  0.47187588+02  0.50379999+02  0.68432622+02  0.11845002+04  0.94715399+03
3   0.             0.             0.76072734+02  0.19238304+03  0.             0.             0.76072734+02  0.19238304+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.14432651-00  0.21928367+01
5   0.53759637+02  0.31914401+02  0.31914402+02  0.10855414-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.25672612-00 -0.69204070+00  0.               0.18350001+02  0.             0.73000030+01  0.12111603+02  0.68432622+02

             240.0000      463106.25      11198.467      14.65667      12526.590      13.07342       -0.01     96.489        0.00
             282.6727   21373285.25       1717.128      17.20133      45432.636       1.78920        0.01      6.287        0.00
              28.0358        170.93      79571.539       0.19015        269.287       5.77697        0.00      0.252        0.08
 0.              0.17891985+01  0.11523031+05  0.13162122+07  0.89324588+00 -0.35393756-00 -0.27719375-00  0.26715999+02
 0.19014647-00  0.36218915-02  0.44730944+04  0.46260141+06  0.33860234-00  0.93526630+00 -0.10306871-00  0.70208255+02
 0.34513378-02  0.59556931-02  0.20314121+04  0.21327703+08  0.29573020-00 -0.17927093-02  0.95526815+00  0.72798672+02
 0.35028615+03 -0.35028615+03  0.44025099+04  0.33300443+02  0.32929611+02  0.47860964+04  0.30222795+03  0.68417494+08
 0.38454483+01  0.96515533+08  0.15257567+03  0.30186617+03
1   0.30422471+02  0.25288667+01  0.               0.26843705+03  0.44704124+03  0.86879500+03 -0.87399998+01  0.17891985+01
2   0.             0.             0.43999578+02  0.46353567+02  0.50379999+02  0.68435247+02  0.11859930+04  0.96018681+03
3   0.             0.             0.76068910+02  0.19236813+03  0.             0.             0.76068910+02  0.19236813+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19720000+04  0.            -0.18784606-00  0.21927569+01
5   0.53691777+02  0.31895446+02  0.31895447+02  0.10512023-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.33609390-00 -0.16196094+01  0.               0.18200000+02  0.             0.66000041+01  0.12111603+02  0.68435247+02

             239.9573      462985.50      11196.359      14.66019      12524.456      13.07631       -0.01     96.488        0.00
             282.6714   21373164.25       1717.127      17.20944      45444.121       1.78875        0.01      6.290        0.00
              28.0360        170.85      79571.796       0.19015        269.288       5.77812        0.00      0.252        0.08
 0.              0.17887520+01  0.11520922+05  0.13157208+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.19014647-00  0.38206297-02  0.44722891+04  0.46241064+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.34513378-02  0.59539270-02  0.20319902+04  0.21327616+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02

CASE  1                                     TRAJECTORY ID  -6 NOM                            SECTION  3                               PAGE  33
 0.35028615+03 -0.35028615+03  0.44021675+04  0.33282416+02  0.32911589+02  0.47857561+04  0.30222810+03  0.68414026+08
 0.38515637+01  0.96515532+08  0.15257409+03  0.30186623+03
1   0.30715961+02  0.25288657+01  0.               0.26843785+03  0.45028565+03  0.87699969+03 -0.87399998+01  0.17887520+01
2   0.             0.             0.44005297+02  0.46493832+02  0.50379999+02  0.68435135+02  0.11859287+04  0.95815597+03
3   0.             0.             0.76069074+02  0.19236878+03  0.             0.             0.76069074+02  0.19236878+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.18597315-00  0.21927603+01
5   0.53694671+02  0.31896255+02  0.31896255+02  0.10526310-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.33265995-00 -0.14753361+01  0.               0.18206398+02  0.             0.66298599+01  0.12111603+02  0.68435135+02

             239.9573      462985.50      11196.359      14.66019      12524.456      13.07631       -0.01     96.488        0.00
             282.6714   21373164.25       1717.127      17.20944      45444.121       1.78875        0.01      6.290        0.00
              28.0360        170.85      79571.796       0.19015        269.288       5.77812        0.00      0.252        0.08
 0.              0.17887520+01  0.11520922+05  0.13157208+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.19014647-00  0.38206297-02  0.44722891+04  0.46241064+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.34513378-02  0.59539270-02  0.20319902+04  0.21327616+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44021675+04  0.33282416+02  0.32911589+02  0.47857561+04  0.30222810+03  0.68414026+08
 0.38515637+01  0.96515532+08  0.15257409+03  0.30186623+03
1   0.30715961+02  0.25288697+01  0.               0.26843785+03  0.45028565+03  0.87699969+03 -0.87399998+01  0.17887520+01
2   0.             0.             0.44005297+02  0.46493832+02  0.50379999+02  0.68435135+02  0.11859287+04  0.95815597+03
3   0.             0.             0.76069074+02  0.19236878+03  0.             0.             0.76069074+02  0.19236878+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.18597315-00  0.21927603+01
5   0.53694671+02  0.31896255+02  0.31896255+02  0.10526310-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.33265995-00 -0.14753361+01  0.               0.18206398+02  0.             0.66298599+01  0.12111603+02  0.68435135+02

BEGIN SOFT SHUT DOWN

             240.0000      463106.00      11198.468      14.65663      12526.591      13.07339       -0.01     96.489        0.00
             282.6727   21373284.75       1717.127      17.20944      45432.636       1.78933        0.01      6.295        0.00
              28.0358        170.93      79576.697       0.             269.278       5.77697        0.00      0.252        0.08
 0.              0.17893264+01  0.11523034+05  0.13162122+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.              0.11668882-07  0.44730903+04  0.46260140+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.              0.30983540-06  0.20314044+04  0.21327703+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44025099+04  0.33299973+02  0.32929144+02  0.47860959+04  0.30222792+03  0.68417493+08
 0.38454665+01  0.96515532+08  0.15257567+03  0.30189572+03
1   0.30425126+02  0.25287379+01  0.               0.26842783+03  0.44704124+03  0.86879519+03 -0.87399998+01  0.17893264+01
2   0.             0.             0.43999730+02  0.46354829+02  0.50379999+02  0.68435247+02  0.11859930+04  0.96018576+03
3   0.             0.             0.76069074+02  0.19235875+03  0.             0.             0.76069074+02  0.19235875+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.18784561-00  0.21927571+01
5   0.53691777+02  0.31895446+02  0.31895447+02  0.10512053-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.33611712-00 -0.16197219+01  0.               0.18200001+02  0.             0.66000041+01  0.12111603+02  0.68435247+02
PFM =  0.81307705+03

             240.8573      465531.00      11241.034      14.58557      12569.668      13.01507       -0.01     96.505        0.00
             282.7008   21375713.00       1717.127      17.20944      45201.857       1.80064        0.01      6.394        0.00
              28.0330        172.43      79675.238       0.             269.076       5.75441        0.00      0.253        0.08
 0.              0.18006419+01  0.11565642+05  0.13261097+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.              0.11348803-07  0.44892500+04  0.46644332+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.              0.30776907-06  0.20196808+04  0.21329439+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44089717+04  0.33649642+02  0.33278812+02  0.47929075+04  0.30222867+03  0.68487232+08
 0.37261986+01  0.96515535+08  0.15260732+03  0.30248810+03
1   0.24537487+02  0.25260879+01  0.               0.26822624+03  0.38182349+03  0.70396301+03 -0.87399998+01  0.18006419+01
2   0.             0.             0.43687089+02  0.43540888+02  0.50379999+02  0.68437498+02  0.11872842+04  0.10009849+04
3   0.             0.             0.76069074+02  0.19215717+03  0.             0.             0.76069074+02  0.19215717+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19720000+04  0.            -0.22549374-00  0.21926897+01
5   0.53633597+02  0.31879192+02  0.31879192+02  0.10231565-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.40603349-00 -0.45395194+01  0.               0.18071399+02  0.             0.59998607+01  0.12111603+02  0.68437498+02
PFM =  0.81462599+03
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CASE  1                    TRAJECTORY ID  -6 NOM                       SECTION  3                        PAGE  34

               240.9573    465813.75     11246.016     14.57735     12574.710     13.00832      -0.01    96.507        0.00
               282.7041  21375995.50      1717.127     17.20944     45174.981      1.79942       0.01     6.406        0.00
                28.0327       172.60     79571.796     0.             268.441      5.75184       0.00     0.253        0.08
 0.               0.17994232+01  0.11570626+05  0.13272665+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.11312575-07  0.44911400+04  0.46689233+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30753335-06  0.20183186+04  0.21329641+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44097232+04  0.33691214+02  0.33320384+02  0.47937005+04  0.30222954+03  0.68495365+08
 0.37127096+01  0.96515535+08  0.15261100+03  0.30281909+03
1   0.23804603+02  0.25142169+01  0.              0.26759055+03  0.37421277+03  0.68478289+03 -0.87399998+01  0.17994232+01
2   0.             0.              0.43871009+02  0.43190721+02  0.50379999+02  0.68437761+02  0.11874349+04  0.10057320+04
3   0.             0.              0.76145142+02  0.19144540+03  0.             0.              0.76145142+02  0.19144540+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.22988695-00  0.21926796+01
5   0.53626812+02  0.31877292+02  0.31877292+02  0.10199638-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.41366376-00 -0.48747788+01  0.              0.18056399+02  0.              0.59298629+01  0.12111603+02  0.68437761+02
PFM =  0.81381299+03

               241.0000    465934.00     11248.139     14.57385     12576.859     13.00545      -0.01    96.507        0.00
               282.7055  21376116.50      1716.712     17.20944     45163.542      1.79811       0.01     6.411        0.00
                28.0325       172.68     79492.098     0.             268.002      5.75075       0.00     0.253        0.08
 0.               0.17981052+01  0.11572749+05  0.13277601+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.11297251-07  0.44919454+04  0.46708393+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30743460-06  0.20177372+04  0.21329727+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44100436+04  0.33708975+02  0.33338145+02  0.47940386+04  0.30222999+03  0.68498830+08
 0.37070019+01  0.96515535+08  0.15261257+03  0.30301546+03
1   0.23480116+02  0.24945631+01  0.              0.26715220+03  0.37095865+03  0.67663335+03 -0.87399998+01  0.17981052+01
2   0.             0.              0.43863239+02  0.43035718+02  0.50379999+02  0.68437873+02  0.11874994+04  0.10077491+04
3   0.             0.              0.76447954+02  0.19070425+03  0.             0.              0.76447954+02  0.19070425+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.23176554-00  0.21926747+01
5   0.53623917+02  0.31876487+02  0.31876487+02  0.10186110-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.41673884-00 -0.50148581+01  0.              0.18050002+02  0.              0.59000072+01  0.12111603+02  0.68437873+02
PFM =  0.81427532+03

               241.5573    467509.00     11275.727     14.52818     12604.775     12.96794      -0.01    96.518        0.00
               282.7238  21377693.25      1711.289     17.20944     45015.767      1.78075       0.01     6.475        0.00
                28.0307       173.65     78450.629     0.             262.274      5.73655       0.00     0.254        0.07
 0.               0.17807518+01  0.11600351+05  0.13342178+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.11099273-07  0.45024139+04  0.46959040+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30612943-06  0.20160908+04  0.21330850+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44142225+04  0.33942223+02  0.33571393+02  0.47984508+04  0.30226364+03  0.68543799+08
 0.36333461+01  0.96515537+08  0.15263360+03  0.30564184+03
1   0.19385468+02  0.22513400+01  0.              0.26142403+03  0.32724772+03  0.57304355+03 -0.87399998+01  0.17807518+01
2   0.             0.              0.43760863+02  0.41079314+02  0.50379999+02  0.68439335+02  0.11883648+04  0.10333874+04
3   0.             0.              0.80405011+02  0.18101902+03  0.             0.              0.80405011+02  0.18101902+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.25699820-00  0.21926086+01
5   0.53586096+02  0.31865920+02  0.31865921+02  0.10011507-06  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.45765001-00 -0.67748018+01  0.              0.17966399+02  0.              0.55098628+01  0.12111603+02  0.68439335+02
PFM =  0.82031699+03

               241.8073    468215.25     11287.968     14.50774     12617.163     12.95113      -0.01    96.523        0.00
               282.7321  21378400.00      1699.613     17.20944     44950.645      1.76397       0.01     6.503        0.00
                28.0298       174.09     77592.049     0.             258.702      5.73022       0.00     0.254        0.07
 0.               0.17639714+01  0.11612608+05  0.13371194+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.11012232-07  0.45070625+04  0.47071659+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30554511-06  0.20066213+04  0.21331351+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44161923+04  0.34047265+02  0.33676436+02  0.48004257+04  0.30227987+03  0.68563730+08
 0.36005783+01  0.96515537+08  0.15264215+03  0.30649802+03

CASE  1                    TRAJECTORY ID  -6 NOM                       SECTION  3                        PAGE  35
1   0.17515832+02  0.21620420+01  0.              0.25785203+03  0.30700383+03  0.52837792+03 -0.87399998+01  0.17639714+01
2   0.             0.              0.43701173+02  0.40186068+02  0.50379999+02  0.68439992+02  0.11888326+04  0.10444418+04
3   0.             0.              0.81546047+02  0.17630598+03  0.             0.              0.81546047+02  0.17630598+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.27063618-00  0.21925688+01
5   0.53569131+02  0.31861182+02  0.31861183+02  0.99347587-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.47739448-00 -0.74833367+01  0.              0.17928899+02  0.              0.53348636+01  0.12111603+02  0.68439992+02
PFM =  0.81462599+03

               242.0000    468759.25     11297.236     14.49195     12626.545     12.93811      -0.01    96.526        0.00
               282.7384  21378944.75      1662.623     17.20944     44931.356      1.72680       0.01     6.525        0.00
                28.0292       174.43     75872.905     0.             252.993      5.72530       0.00     0.254        0.07
 0.               0.17267968+01  0.11621903+05  0.13393575+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.10945620-07  0.45105878+04  0.47158521+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30509190-06  0.20038986+04  0.21331738+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44175313+04  0.34127570+02  0.33756740+02  0.48019450+04  0.30229571+03  0.68578836+08
 0.35762168+01  0.96515537+08  0.15264917+03  0.30647338+03
1   0.15814529+02  0.21298675+01  0.              0.25214269+03  0.29138888+03  0.49486739+03 -0.87399998+01  0.17267968+01
2   0.             0.              0.43626985+02  0.39373881+02  0.50379999+02  0.68440497+02  0.11892378+04  0.10527353+04
3   0.             0.              0.80550179+02  0.17158251+03  0.             0.              0.80550179+02  0.17158251+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.29244885-00  0.21925166+01
5   0.53556357+02  0.31857532+02  0.31857532+02  0.98762782-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.48773178-00 -0.78928982+01  0.              0.17909002+02  0.              0.52000083+01  0.12111603+02  0.68440497+02
PFM =  0.79640050+03

               242.3573    469767.75     11313.823     14.46241     12643.345     12.91367      -0.01    96.533        0.00
               282.7502  21379954.50      1594.049     17.20944     44812.841      1.65752       0.01     6.567        0.00
                28.0280       175.06     72684.061     0.             242.402      5.71597       0.00     0.254        0.07
 0.               0.16575173+01  0.11638596+05  0.13435136+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.10822852-07  0.45169191+04  0.47319821+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30423591-06  0.19986682+04  0.21332452+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44201959+04  0.34273310+02  0.33902480+02  0.48047553+04  0.30233541+03  0.68605961+08
 0.35304923+01  0.96515538+08  0.15266219+03  0.30642461+03
1   0.12873442+02  0.20680534+01  0.              0.24155242+03  0.26292751+03  0.43511802+03 -0.87399998+01  0.16575173+01
2   0.             0.              0.43491987+02  0.37969343+02  0.50379999+02  0.68441436+02  0.11899762+04  0.10675223+04
3   0.             0.              0.78731491+02  0.16282093+03  0.             0.              0.78731491+02  0.16282093+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.30397885-00  0.21924218+01
5   0.53531808+02  0.31850753+02  0.31850754+02  0.97693075-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.50385021+00 -0.85471031+01  0.              0.17846400+02  0.              0.49498653+01  0.12111603+02  0.68441436+02
PFM =  0.76259399+03

               242.9573    471460.00     11340.022     14.41217     12669.903     12.87181      -0.01    96.544        0.00
               282.7701  21381649.00      1506.092     17.20944     44671.933      1.55362       0.01     6.637        0.00
                28.0260       176.12     67897.021     0.             227.294      5.69978       0.00     0.255        0.07
 0.               0.15536176+01  0.11665127+05  0.13505048+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.10618942-07  0.45269818+04  0.47591141+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.30275764-06  0.19893943+04  0.21333649+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44246566+04  0.34509210+02  0.34138381+02  0.48094518+04  0.30241409+03  0.68649065+08
 0.34543936+01  0.96515540+08  0.15268394+03  0.30534557+03
1   0.86594427+01  0.19127361+01  0.              0.22644366+03  0.21598528+03  0.34166142+03 -0.87399998+01  0.15536176+01
2   0.             0.              0.43278941+02  0.35955196+02  0.50379999+02  0.68443011+02  0.11913449+04  0.10936507+04
3   0.             0.              0.77742594+02  0.14870106+03  0.             0.              0.77742594+02  0.14870106+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.             -0.34388292-00  0.21922729+01
5   0.53491092+02  0.31839374+02  0.31839374+02  0.95939132-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.53426259+00 -0.94347512+01  0.              0.17756400+02  0.              0.45298671+01  0.12111603+02  0.68443011+02
PFM =  0.72031799+03

               243.0000    471580.25     11341.808     14.40856     12671.716     12.86880      -0.01    96.545        0.00
               282.7715  21381769.00      1500.102     17.20944     44662.262      1.54584       0.01     6.642        0.00
                28.0259       176.20     67540.398     0.             226.177      5.69860       0.00     0.255        0.07
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CASE  1                           TRAJECTORY ID  -6 NOM                                  SECTION  3                               PAGE  36
 0.                  0.15458351+01  0.11666945+05  0.13510023+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10604550-07  0.45276710+04  0.47610451+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30265076-06  0.19887125+04  0.21333734+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44249729+04  0.34525575+02  0.34154746+02  0.48097847+04  0.30241555+03  0.68652017+08
 0.34490187+01  0.96515540+08  0.15268549+03  0.30524977+03
1   0.83816107+01  0.19012794+01  0.                 0.22532707+03  0.21267115+03  0.33534132+03 -0.87399998+01  0.15458351+01
2   0.             0.             0.43263311+02  0.35822345+02  0.50379999+02  0.68443123+02  0.11914510+04  0.10922147+04
3   0.             0.             0.77664727+02  0.14766234+03  0.             0.             0.77664727+02  0.14766234+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.34697611-00  0.21922620+01
5   0.53488197+02  0.31838569+02  0.31838569+02  0.95816411-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.53636786+00 -0.94832666+01  0.                 0.17750002+02  0.             0.45000114+01  0.12111603+02  0.68443123+02
PFM =  0.71685046+03

              243.4573    472868.50    11360.302    14.36967    12693.487    12.83616     -0.01   96.554       0.00
              282.7867  21383059.50     1435.862    17.20944    44561.558     1.46207      0.01    6.696       0.00
               28.0243       177.01    63716.319     0.            214.204     5.68580      0.00    0.255       0.07
 0.                  0.14620712+01  0.11685827+05  0.13563426+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10451335-07  0.45348334+04  0.47817688+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30149283-06  0.19812035+04  0.21334641+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44283607+04  0.34697293+02  0.34326463+02  0.48133441+04  0.30245987+03  0.68682703+08
 0.33916919+01  0.96515541+08  0.15270199+03  0.30415966+03
1   0.56112929+01  0.17769691+01  0.                 0.21335388+03  0.17734219+03  0.27035511+03 -0.87399998+01  0.14620712+01
2   0.             0.             0.43098366+02  0.34496990+02  0.50379999+02  0.68444324+02  0.11925901+04  0.11082967+04
3   0.             0.             0.76829764+02  0.13652412+03  0.             0.             0.76829764+02  0.13652412+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19720000+04  0.            -0.38018844-00  0.21921466+01
5   0.53457162+02  0.31829898+02  0.31829899+02  0.94517253-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.55586259+00 -0.99008854+01  0.                 0.17681400+02  0.             0.41798686+01  0.12111603+02  0.68444324+02
PFM =  0.67966799+03

              243.7073    473572.25    11369.816    14.34815    12700.153    12.81800     -0.01   96.558       0.00
              282.7950  21383763.75     1377.136    17.20944    44509.006     1.39599      0.01    6.726       0.00
               28.0235       177.45    60757.044     0.            206.207     5.67860      0.00    0.256       0.07
 0.                  0.13959910+01  0.11695610+05  0.13592652+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10368140-07  0.45385440+04  0.47931106+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30064597-06  0.19769213+04  0.21335136+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44302083+04  0.34787562+02  0.34416732+02  0.48152819+04  0.30247313+03  0.68698613+08
 0.33604926+01  0.96515541+08  0.15271099+03  0.30131873+03
1   0.41044137+01  0.16915441+01  0.                 0.20535749+03  0.15820131+03  0.23715708+03 -0.87399998+01  0.13959910+01
2   0.             0.             0.42985025+02  0.33776040+02  0.50379999+02  0.68444979+02  0.11933577+04  0.11165120+04
3   0.             0.             0.76297280+02  0.12906021+03  0.             0.             0.76297280+02  0.12906021+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.40256591-00  0.21920659+01
5   0.53440197+02  0.31825160+02  0.31825161+02  0.93819360-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.56197840+00 -0.99077509+01  0.                 0.17643900+02  0.             0.40048675+01  0.12111603+02  0.68444979+02
PFM =  0.65365199+03

              243.8573    473994.25    11375.242    14.33510    12705.672    12.80695     -0.01   96.561       0.00
              282.7999  21384186.25     1347.945    17.20944    44478.542     1.34407      0.01    6.744       0.00
               28.0230       177.71    58434.343     0.            199.978     5.67417      0.00    0.256       0.06
 0.                  0.13440701+01  0.11701225+05  0.13610200+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10318261-07  0.45406737+04  0.47999203+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30045123-06  0.19742681+04  0.21335433+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44313154+04  0.34839842+02  0.34469012+02  0.48164413+04  0.30247604+03  0.68707756+08
 0.33417568+01  0.96515541+08  0.15271637+03  0.29894393+03
1   0.31826199+01  0.16203498+01  0.                 0.19912826+03  0.14677954+03  0.21824241+03 -0.87399998+01  0.13440701+01
2   0.             0.             0.42906880+02  0.33335062+02  0.50379999+02  0.68445373+02  0.11938157+04  0.11211926+04
3   0.             0.             0.75993004+02  0.12313525+03  0.             0.             0.75993004+02  0.12313525+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.41591917-00  0.21920099+01
5   0.53430016+02  0.31822315+02  0.31822315+02  0.93404812-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.55902454+00 -0.97884952+01  0.                 0.17621400+02  0.             0.38998680+01  0.12111603+02  0.68445373+02

CASE  1                           TRAJECTORY ID  -6 NOM                                  SECTION  3                               PAGE  37
PFM =  0.63007499+03

              243.7306    473637.50    11370.672    14.34614    12701.024    12.81630     -0.01   96.559       0.00
              282.7957  21383829.00     1372.615    17.20944    44504.227     1.38796      0.01    6.729       0.00
               28.0234       177.49    60397.267     0.            205.243     5.67792      0.00    0.256       0.07
 0.                  0.13879552+01  0.11696494+05  0.13595369+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10360436-07  0.45388794+04  0.47941651+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30078600-06  0.19765152+04  0.21335182+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44303798+04  0.34795770+02  0.34424940+02  0.48154616+04  0.30248292+03  0.68700051+08
 0.33576009+01  0.96515540+08  0.15271182+03  0.30096032+03
1   0.39573660+01  0.16805535+01  0.                 0.20439260+03  0.15642913+03  0.23416909+03 -0.87399998+01  0.13879552+01
2   0.             0.             0.42972832+02  0.33705705+02  0.50379999+02  0.68445040+02  0.11934288+04  0.11172514+04
3   0.             0.             0.76250149+02  0.12814245+03  0.             0.             0.76250149+02  0.12814245+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.40463767-00  0.21920571+01
5   0.53438620+02  0.31824718+02  0.31824718+02  0.93755074-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.56161898+00 -0.96913763+01  0.                 0.17640415+02  0.             0.39886036+01  0.12111603+02  0.68445040+02
PFM =  0.65000000+03

FUEL MANIFOLD PRESSURE SWITCH ACTIVATED

END SOFT SHUT DOWN

              243.8006    473834.50    11373.210    14.34005    12703.605    12.81114     -0.01   96.560       0.00
              282.7981  21384026.25     1360.536    17.20944    44490.174     1.35694      0.01    6.737       0.00
               28.0232       177.61    59009.941     0.            196.274     5.67586      0.00    0.256       0.06
 0.                  0.13569393+01  0.11699119+05  0.13603558+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10337097-07  0.45398752+04  0.47973426+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30060020-06  0.19752786+04  0.21335320+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44308965+04  0.34820198+02  0.34449368+02  0.48160028+04  0.30248784+03  0.68704325+08
 0.33488496+01  0.96515540+08  0.15271433+03  0.30758213+03
1   0.34763650+01  0.16780950+01  0.                 0.19542432+03  0.15120637+03  0.22539825+03 -0.87399998+01  0.13569393+01
2   0.             0.             0.42929982+02  0.33475756+02  0.50379999+02  0.68445224+02  0.11936381+04  0.11194219+04
3   0.             0.             0.72971392+02  0.12245293+03  0.             0.             0.72971392+02  0.12245293+03
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.41074353-00  0.21920262+01
5   0.53433870+02  0.31823391+02  0.31823391+02  0.93561400-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.55735407+00 -0.97870224+01  0.                 0.17629915+02  0.             0.39396038+01  0.12111603+02  0.68445224+02
PFM =  0.58239999+03

              243.9306    474200.00    11375.327    14.32720    12705.811    12.79988     -0.01   96.563       0.00
              282.8024  21384392.00      248.992    17.20944    44472.047     0.13756      0.01    6.754       0.00
               28.0227       177.84     5868.802     0.             82.593     5.67074      0.00    0.256       0.06
 0.                  0.13756479-00  0.11701658+05  0.13618769+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10289414-07  0.45408389+04  0.48032453+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.                  0.30017221-06  0.19722085+04  0.21335576+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44318554+04  0.34844937+02  0.34474108+02  0.48169864+04  0.30253258+03  0.68708646+08
 0.33304310+01  0.96515540+08  0.15271900+03  0.74071742+02
1  -0.56007509+01  0.66573928+01  0.                 0.81742826+02  0.14576936+03  0.21281940+03 -0.87399998+01  0.13756479-00
2   0.             0.             0.41755573+02  0.29158801+02  0.50379999+02  0.68445565+02  0.11938562+04  0.11225347+04
3   0.             0.             0.10675021+02  0.71067806+02  0.             0.             0.10675021+02  0.71067806+02
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.41709986-00  0.21911305+01
5   0.53425048+02  0.31820930+02  0.31820930+02  0.93203755-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.57378256-01 -0.10091622+01  0.                 0.17610415+02  0.             0.38486061+01  0.12111603+02  0.68445565+02
PFM =  0.46799999+02

              244.0000    474395.00    11375.086    14.31952    12705.623    12.79297     -0.01   96.564       0.00
              282.8047  21384587.50      267.953    17.20944    44466.729     0.12010      0.01    6.764       0.00
               28.0225       177.97     5072.633     0.             70.644     5.66734      0.00    0.256       0.06
 0.                  0.12010283-00  0.11701781+05  0.13626892+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.                  0.10261660-07  0.45408858+04  0.48063974+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
```

```
 0.               0.29989879-06  0.19701607+04  0.21335714+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
CASE  1                          TRAJECTORY ID  -6 NOM                         SECTION  3                           PAGE  38
 0.35028615+03 -0.35028615+03  0.44323670+04  0.34847228+02  0.34476399+02  0.48175003+04  0.30248730+03  0.68709043+08
 0.33194647+01  0.96515540+08  0.15272148+03  0.75598364+02
1  -0.57370322+01  0.69109664+01  0.             0.69794209+02  0.14509264+03  0.20823654+03 -0.87399998+01  0.12010283-00
2   0.             0.             0.41734198+02  0.29092701+02  0.50379999+02  0.68445747+02  0.11938833+04  0.11236688+04
3   0.             0.             0.88224629+01  0.60971746+02  0.             0.             0.88224629+01  0.60971746+02
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.41789128-00  0.21911237+01
5   0.53420338+02  0.31819614+02  0.31819614+02  0.93013836-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.50189927-01 -0.88646057+00  0.             0.17600003+02  0.             0.38000145+01  0.12111603+02  0.68445747+02
PFM =  0.41385508+02

              244.1306     474761.75      11374.528      14.30502     12705.164      12.77990        -0.01    96.567        0.00
              282.8090   21384954.75        303.622      17.20944     44458.972       0.08724         0.01     6.783        0.00
               28.0221        178.20       3574.914       0.              48.167       5.66091         0.00     0.257        0.06
 0.               0.87238409-01  0.11701915+05  0.13642173+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.10209181-07  0.45409381+04  0.48123270+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.29937009-06  0.19662771+04  0.21335971+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44333287+04  0.34850708+02  0.34479879+02  0.48184655+04  0.30243307+03  0.68709644+08
 0.32988811+01  0.96515540+08  0.15272616+03  0.80522726+02
1  -0.59811462+01  0.78649905+01  0.             0.47316979+02  0.14416810+03  0.20151467+03 -0.87399998+01  0.87238409-01
2   0.             0.             0.41694086+02  0.28974175+02  0.50379999+02  0.68446090+02  0.11939204+04  0.11253323+04
3   0.             0.             0.53375103+01  0.41979469+02  0.             0.             0.53375103+01  0.41979469+02
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.41897187-00  0.21910969+01
5   0.53411476+02  0.31817134+02  0.31817134+02  0.92658304-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.36550440-01 -0.64964486+00  0.             0.17580415+02  0.             0.37086067+01  0.12111603+02  0.68446090+02
PFM =  0.31199999+02

              244.1706     474873.75      11374.301      14.30055     12704.968      12.77586        -0.01    96.568        0.00
              282.8104   21385067.00        789.528      17.20944     44457.884       0.03216         0.01     6.789        0.00
               28.0219        178.27        640.211       0.               6.188       5.65892         0.00     0.257        0.06
 0.               0.32159255-01  0.11701906+05  0.13646853+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.10192881-07  0.45409349+04  0.48141434+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.29920093-06  0.19650707+04  0.21336049+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44336230+04  0.34851325+02  0.34480495+02  0.48187604+04  0.30243437+03  0.68709750+08
 0.32925811+01  0.96515540+08  0.15272758+03  0.23106852+03
1  -0.63629673+01  0.             0.             0.53375103+01  0.14395460+03  0.20067509+03 -0.87399998+01  0.32159255-01
2   0.             0.             0.41639207+02  0.28791928+02  0.50379999+02  0.68446195+02  0.11939289+04  0.11255401+04
3   0.             0.             0.53375103+01  0.             0.             0.             0.53375103+01  0.
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.41922145-00  0.21910553+01
5   0.53408762+02  0.31816379+02  0.31816379+02  0.92550164-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.13481849-01 -0.23974764-00  0.             0.17574415+02  0.             0.36806068+01  0.12111603+02  0.68446195+02
PFM =  0.

              245.0000     477193.25      11368.716      14.20715     12700.016      12.69147        -0.01    96.584        0.00
              282.8379   21387389.00        544.100      17.20944     44453.929       0.01898         0.01     6.910        0.00
               28.0191        179.74        299.825       0.               3.350       5.61776         0.00     0.258        0.06
 0.               0.18984134-01  0.11700895+05  0.13743906+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.98587893-08  0.45405595+04  0.48518051+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.29562080-06  0.19397910+04  0.21337669+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028615+03 -0.35028615+03  0.44397041+04  0.34856874+02  0.34486044+02  0.48248471+04  0.30243862+03  0.68710692+08
 0.31649374+01  0.96515542+08  0.15275703+03  0.25194234+03
1  -0.64537343+01  0.             0.             0.24996773+01  0.14070446+03  0.20067509+03 -0.87399998+01  0.18984134-01
2   0.             0.             0.41570378+02  0.28732963+02  0.50379999+02  0.68448372+02  0.11940593+04  0.11255417+04
3   0.             0.             0.24996773+01  0.             0.             0.             0.24996773+01  0.
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.42302154-00  0.21910205+01
5   0.53352477+02  0.31800655+02  0.31800655+02  0.90355062-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.80306978-02 -0.14153276-00  0.             0.17450003+02  0.             0.31000156+01  0.12111603+02  0.68448372+02
PFM =  0.


CASE  1                          TRAJECTORY ID  -6 NOM                         SECTION  3                           PAGE  39
              245.7306     479223.00      11363.542      14.12464     12695.398      12.61689        -0.01    96.599        0.00
              282.8622   21389421.00        327.918      17.20944     44452.395       0.00738         0.01     7.016        0.00
               28.0166        181.04       0.             0.               0.850       5.58232         0.00     0.260        0.06
 0.               0.73766922-02  0.11699735+05  0.13829387+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.95790936-08  0.45401265+04  0.48949761+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.29259104-06  0.19174427+04  0.21339078+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028616+03 -0.35028616+03  0.44450247+04  0.34859469+02  0.34488639+02  0.48301703+04  0.30244862+03  0.68711120+08
 0.30584180+01  0.96515544+08  0.15278267+03  0.38578543+03
1  -0.65336986+01  0.             0.             0.             0.13979135+03  0.20067509+03 -0.87399998+01  0.73766922-02
2   0.             0.             0.41509848+02  0.28681015+02  0.50379999+02  0.68450291+02  0.11940959+04  0.11255431+04
3   0.             0.             0.             0.             0.             0.             0.             0.
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.42408878-00  0.21909899+01
5   0.53302900+02  0.31786804+02  0.31786804+02  0.88501489-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.31283724-02 -0.54997536-01  0.             0.17340416+02  0.             0.25886077+01  0.12111603+02  0.68450291+02
PFM =  0.

END DECAY

              245.7306     479223.00      11363.542      14.12464     12695.398      12.61689        -0.01    96.599        0.00
              282.8622   21389421.00        327.918      17.20944     36365.000       0.00738         0.01     7.016        0.00
               28.0166        181.04       0.             0.               0.850       5.58232         0.00     0.260        0.06
 0.               0.73766922-02  0.11699735+05  0.13829387+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.               0.95790936-08  0.45401265+04  0.48949761+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.               0.29259104-06  0.19174427+04  0.21339078+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028616+03 -0.35028616+03  0.44450247+04  0.34859469+02  0.34488639+02  0.48301703+04  0.30244862+03  0.68711120+08
 0.30584180+01  0.96515544+08  0.15278267+03  0.38578543+03
1  -0.65336986+01  0.             0.             0.             0.13979135+03  0.20067509+03 -0.87399998+01  0.73766922-02
2   0.             0.             0.41509848+02  0.28681015+02  0.50379999+02  0.68450291+02  0.11940959+04  0.11255431+04
3   0.             0.             0.             0.             0.             0.             0.             0.
4   0.29639999+03 -0.73239998+01  0.94419996+01  0.72199999+03  0.19719999+04  0.            -0.42408878-00  0.21909899+01
5   0.53302900+02  0.31786804+02  0.31786804+02  0.88501489-07  0.20850981+01 -0.61961072+03  0.37488564-00  0.88172007+00
6  -0.31283724-02 -0.54997536-01  0.             0.17340416+02  0.             0.25886077+01  0.12111603+02  0.68450291+02
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CASE  1                        TRAJECTORY ID  -6 NOM                            SECTION  4                          PAGE  40
          TIME          ALTITUDE       VELOCITY RA  FLT PATH R   VELOCITY I   FLT PATH I  AXL FORCE   VEL R AZ      DYNM PRS
          LONGITUDE     R MAGNITUDE    THRST FIXED  PITCH ATT    WEIGHT       AXL LD FCTR NORM FORCE  ALPHA          ATM PRS
          GEOCENT LAT   GRND RANGE     THRST CONTL  PITCH RATE   WEIGHT DOT   MACH NUMBER SIDE FORCE  BETA           REY NUMB
ENGLISH UNITS
   OM XI          AC XI           VMU            RMU             L11            L12            L13               ACOL11
   OM ETA         AC ETA          VMV            RMV             L21            L22            L23               ACOL12
   OM ZET         AC ZET          VMW            RMW             L31            L32            L33               ACOL13
   D LOSS         G LOSS          M LOSS         ML ALF          ML BET         T LOSS         SP IMP            TOT IM
   H FLUX         H PARA          DBLOSS         IISP

              245.7306    479223.00     11363.542     14.12464     12695.398      12.61689         0.       96.599          0.00
              282.8622  21389421.00         0.        17.20944     36360.000       0.00024         0.        7.016          0.00
               28.0166       181.04         8.720      0.              4.440       5.58232         0.        0.260          0.06
0.             0.23982397-03  0.11699735+05  0.13829387+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45401265+04  0.48849761+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.19174427+04  0.21339078+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44450247+04  0.34859469+02  0.34488639+02  0.48301703+04  0.19639639+01  0.68711120+08
0.30564180+01  0.96515544+08  0.15278267+03  0.19639639+01

              246.0000    479968.25     11361.531     14.09412     12693.592      12.58930         0.       96.605          0.00
              282.8711  21390168.00         0.        17.20944     36358.803       0.00024         0.        7.056          0.00
               28.0157       181.51         8.720      0.              4.440       5.56942         0.        0.261          0.06
0.             0.23983186-03  0.11695205+05  0.13860910+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45399281+04  0.48972086+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.19091688+04  0.21339593+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44469785+04  0.34859486+02  0.34488656+02  0.48321240+04  0.16718280+01  0.68711122+08
0.30204299+01  0.96515544+08  0.15279206+03  0.19639639+01

              252.2306    496727.00     11316.253     13.38554     12652.939      11.94930         0.       96.730          0.00
              283.0776  21406947.75         0.        17.20944     36331.137       0.00024         0.        7.971          0.00
               27.9944       192.55         8.720      0.              4.440       5.30048         0.        0.274          0.04
0.             0.24001450-03  0.11686621+05  0.14589448+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45352123+04  0.51799261+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.17160220+04  0.21350892+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44908743+04  0.34859955+02  0.34489125+02  0.48760203+04  0.18018018+01  0.68711172+08
0.23107984+01  0.96515556+08  0.15299893+03  0.19639638+01

              252.2306    496727.00     11316.253     13.38554     12652.939      11.94930         0.       96.730          0.00
              283.0778  21406947.75         0.        17.20944     36331.137       0.00024         0.        7.971          0.00
               27.9944       192.55         8.720      0.              4.440       5.30048         0.        0.274          0.04
0.             0.24001450-03  0.11686621+05  0.14589448+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45352123+04  0.51799261+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.17180220+04  0.21350892+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44908743+04  0.34859955+02  0.34489125+02  0.48760203+04  0.18018018+01  0.68711172+08
0.23107984+01  0.96515556+08  0.15299893+03  0.19639638+01


CASE  1                        TRAJECTORY ID  -6 NOM                            SECTION  5                          PAGE  41
          TIME          ALTITUDE       VELOCITY RA  FLT PATH R   VELOCITY I   FLT PATH I  AXL FORCE   VEL R AZ      DYNM PRS
          LONGITUDE     R MAGNITUDE    THRST FIXED  PITCH ATT    WEIGHT       AXL LD FCTR NORM FORCE  ALPHA          ATM PRS
          GEOCENT LAT   GRND RANGE     THRST CONTL  PITCH RATE   WEIGHT DOT   MACH NUMBER SIDE FORCE  BETA           REY NUMB
ENGLISH UNITS
   OM XI          AC XI           VMU            RMU             L11            L12            L13               ACOL11
   OM ETA         AC ETA          VMV            RMV             L21            L22            L23               ACOL12
   OM ZET         AC ZET          VMW            RMW             L31            L32            L33               ACOL13
   D LOSS         G LOSS          M LOSS         ML ALF          ML BET         T LOSS         SP IMP            TOT IM
   H FLUX         H PARA          DBLOSS         IISP
   PERRAD         PERALT          PERVEL         SEMILR          SEMIMA         ECCENT         VISVIV            V-INFI
   APORAD         APOALT          APOVEL         ORBINC          TRU AN         SEMIVA         PERIAP            LONASN
   POSARG         PERIOD          TIMEAP         ECC AN          MEANAN         RNGANG

              252.2306    496727.00     11316.253     13.38554     12652.939      11.94930         0.       96.730          0.00
              283.0778  21406947.75         0.        17.20944     36331.137       0.00024         0.        7.971          0.00
               27.9944       192.55         8.727      0.              8.912       5.30048         0.        0.274          0.04
0.             0.24020875-03  0.11686621+05  0.14589448+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45352123+04  0.51799261+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.17180220+04  0.21350892+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44908743+04  0.34859955+02  0.34489125+02  0.48760203+04  0.97925068+00  0.68711172+08
0.23107584+01  0.96515556+08  0.15299893+03  0.97925068+00
0.28206565+07 -0.18105081+08  0.93946770+05  0.49884807+07  0.12187052+08  0.76855300+00 -0.11550405+10 -0.33985886+05
0.21553447+08  0.62770925+06  0.12294625+05  0.28575848+02  0.17632090+03  0.27453512-18  0.28477197+03  0.26103358+03
0.10109288+03  0.22530971+04  0.11205895+03  0.16985301+03  0.16209521+03  0.41316815+01

              252.3000    496908.00     11315.775     13.37763     12652.511      11.94215         0.       96.732          0.00
              283.0801  21407129.25         0.        17.20944     36330.532       0.01172         0.        7.981          0.00
               27.9941       192.67       425.663      0.              8.495       5.29779         0.        0.275          0.04
0.             0.11716411-01  0.11686489+05  0.14597562+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45351627+04  0.51830751+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.17158975+04  0.21351011+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44513496+04  0.34860101+02  0.34489271+02  0.48764957+04  0.25430970+02  0.68711187+08
0.23044290+01  0.96515556+08  0.15300112+03  0.50107796+02
0.28206630+07 -0.18105075+08  0.93946651+05  0.49884908+07  0.12187055+08  0.76855254+00 -0.11550402+10 -0.33985882+05
0.21553448+08  0.62770975+06  0.12294637+05  0.28575850+02  0.17632320+03  0.27453512-18  0.28477201+03  0.26103327+03
0.10109520+03  0.22530981+04  0.11198939+03  0.16985933+03  0.16210633+03  0.41339798+01

              253.2000    499252.00     11312.923     13.27734     12650.297      11.85204         0.       96.750          0.00
              283.1100  21409476.50         0.        17.20944     36317.737       0.71644         0.        8.111          0.00
               27.9910       194.26     26019.461      0.             47.850       5.26481         0.        0.277          0.04
0.             0.71643549+00  0.11687767+05  0.14702740+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45356546+04  0.52238911+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.16893585+04  0.21352544+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.44974826+04  0.34900966+02  0.34530136+02  0.48826697+04  0.26834988+03  0.68715291+08
0.22260107+01  0.96515556+08  0.15302943+03  0.54377368+03
0.28223574+07 -0.18103381+08  0.93915224+05  0.49911450+07  0.12187985+08  0.76843118+00 -0.11549520+10 -0.33984585+05
0.21553613+08  0.62787549+06  0.12297814+05  0.28575904+02  0.17634967+03  0.27453512-18  0.28477586+03  0.26102893+03
0.10112552+03  0.22533560+04  0.11116283+03  0.16993498+03  0.16224043+03  0.41637947+01

              254.2000    501840.00     11332.059     13.18225     12670.047      11.76902         0.       96.769          0.00
              283.1431  21412067.75         0.        17.20944     36248.784       0.82852         0.        8.240          0.00
               27.9876       196.04     30033.005      0.             69.676       5.23945         0.        0.278          0.04
0.             0.82852449+00  0.11709252+05  0.14819725+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
0.             0.             0.45438068+04  0.52692886+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
0.             0.             0.16665301+04  0.21354222+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
0.35028616+03 -0.35028616+03  0.45042429+04  0.35202907+02  0.34832077+02  0.48897319+04  0.39535026+03  0.68744931+08
0.21562787+01  0.96515556+08  0.15306051+03  0.43103635+03
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CASE  1                                        TRAJECTORY ID  -6 NOM                        SECTION  5                                   PAGE  42
 0.28350336+07 -0.18090704+08  0.93680988+05  0.50109898+07  0.12194946+08  0.76752389+00 -0.11542928+10 -0.33974884+05
 0.21554858+08  0.62912074+06  0.12321525+05  0.28576108+02  0.17635769+03  0.27453512-18  0.28480286+03  0.26102259+03
 0.10116058+03  0.22552866+04  0.11071595+03  0.16997910+03  0.16232697+03  0.41969575+01

              254.3000     502097.75     11334.000     13.17279     12672.049     11.76076        0.       96.771         0.00
              283.1465   21412326.50         0.        17.20944     36241.827      0.82868        0.        8.252         0.00
               27.9672        196.21     30033.005      0.              69.457      5.23697        0.        0.278         0.04
 0.             0.82868354+00  0.11711422+05  0.14831435+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.             0.             0.45446304+04  0.52738328+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.             0.             0.16642554+04  0.21354388+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028616+03 -0.35028616+03  0.45049160+04  0.35234035+02  0.34863205+02  0.48904362+04  0.39813420+03  0.68747934+08
 0.21495337+01  0.96515556+08  0.15306360+03  0.43239707+03
 0.28363156+07 -0.18089422+08  0.93657385+05  0.50129955+07  0.12195650+08  0.76743218+00 -0.11542261+10 -0.33973905+05
 0.21554983+08  0.62924574+06  0.12323920+05  0.28576127+02  0.17635850+03  0.27453512-18  0.28480560+03  0.26102196+03
 0.10116409+03  0.22554818+04  0.11067126+03  0.16998351+03  0.16233563+03  0.42002927+01

              255.0000     503899.75     11347.614     13.10673     12686.089     11.70310        0.       96.785         0.00
              283.1697   21414130.50         0.        17.20944     36193.204      0.82980        0.        8.342         0.00
               27.9848        197.46     30033.005      0.              69.457      5.21985        0.        0.279         0.04
 0.             0.82979681+00  0.11726624+05  0.14913472+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.             0.             0.45503984+04  0.53056668+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.             0.             0.16483376+04  0.21355547+06  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028616+03 -0.35028616+03  0.45096136+04  0.35454727+02  0.35083897+02  0.48953544+04  0.40995217+03  0.68768958+08
 0.21032733+01  0.96515557+08  0.15308513+03  0.43239708+03
 0.28453067+07 -0.18080431+08  0.93492281+05  0.50270575+07  0.12200584+08  0.76678932+00 -0.11537594+10 -0.33967034+05
 0.21555863+08  0.63012475+06  0.12340689+05  0.28576272+02  0.17636396+03  0.27453512-18  0.28482471+03  0.26101752+03
 0.10118867+03  0.22568510+04  0.11036278+03  0.17001400+03  0.16239555+03  0.42235301+01

              256.2306     507051.75     11371.656     12.99132     12710.871     11.60235        0.       96.809         0.00
              283.2107   21417286.75         0.        17.20944     36107.732      0.83176        0.        8.498         0.00
               27.9805        199.64     30033.006      0.              69.457      5.19072        0.        0.281         0.04
 0.             0.83176105+00  0.11753382+05  0.15057940+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.             0.             0.45605508+04  0.53617249+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.             0.             0.16203845+04  0.21357559+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028616+03 -0.35028616+03  0.45178091+04  0.35854556+02  0.35483725+02  0.49039497+04  0.41842218+03  0.68805915+08
 0.20259991+01  0.96515559+08  0.15312257+03  0.43239708+03
 0.28611860+07 -0.18064552+08  0.93202552+05  0.50518679+07  0.12209295+08  0.76565509+00 -0.11529362+10 -0.33954915+05
 0.21557403+08  0.63166574+06  0.12370221+05  0.28576524+02  0.17637354+03  0.27453512-18  0.28485842+03  0.26100971+03
 0.10123195+03  0.22592682+04  0.10982251+03  0.17006739+03  0.16250048+03  0.42644630+01

              256.2306     507051.75     11371.656     12.99132     12710.871     11.60235        0.       96.809         0.00
              283.2107   21417286.75         0.        17.20944     36107.732      0.83176        0.        8.498         0.00
               27.9805        199.64     30033.006      0.67101         69.457      5.19072        0.        0.281         0.04
 0.             0.83176105+00  0.11753382+05  0.15057940+07  0.89320754+00 -0.35393526-00 -0.27732018-00  0.26720886+02
 0.67101025+00  0.             0.45605508+04  0.53617249+06  0.33858534-00  0.93526716+00 -0.10311664-00  0.70209290+02
 0.91984332-01  0.             0.16203845+04  0.21357559+08  0.29586541-00 -0.17919493-02  0.95522627+00  0.72790562+02
 0.35028616+03 -0.35028616+03  0.45178091+04  0.35854556+02  0.35483725+02  0.49039497+04  0.41842218+03  0.68805915+08
 0.20259991+01  0.96515559+08  0.15312257+03  0.43239708+03
 0.28611860+07 -0.18064552+08  0.93202552+05  0.50518679+07  0.12209295+08  0.76565509+00 -0.11529362+10 -0.33954915+05
 0.21557403+08  0.63166574+06  0.12370221+05  0.28576524+02  0.17637354+03  0.27453512-18  0.28485842+03  0.26100971+03
 0.10123195+03  0.22592682+04  0.10982251+03  0.17006739+03  0.16250048+03  0.42644630+01

              257.0000     509011.75     11386.774     12.91915     12726.449     11.53934        0.       96.824         0.00
              283.2364   21419250.00         0.        16.69299     36054.290      0.83299        0.        8.080         0.00
               27.9778        201.01     30033.005      0.36632         69.457      5.17312        0.        0.353         0.03
 0.             0.83299395+00  0.11770155+05  0.15148439+07  0.89523231+00 -0.35503987-00 -0.26926218-00  0.26461714+02
 0.36631693-00  0.             0.45669289+04  0.53968399+06  0.34065581-00  0.93484762+00 -0.10005625-00  0.70083165+02
 0.50215898-01  0.             0.16028358+04  0.21356796+08  0.28724340-00 -0.21521015-02  0.95785352+00  0.73307007+02


CASE  1                                        TRAJECTORY ID  -6 NOM                        SECTION  5                                   PAGE  43
 0.35028616+03 -0.35028616+03  0.45228933+04  0.36098044+02  0.35727208+02  0.49092774+04  0.42108906+03  0.68829023+08
 0.19801714+01  0.96515560+08  0.15314573+03  0.43239708+03
 0.28711811+07 -0.18054556+08  0.93021391+05  0.50674678+07  0.12214769+08  0.76494184+00 -0.11524195+10 -0.33947305+05
 0.21558357+08  0.63261925+06  0.12388758+05  0.28576671+02  0.17637962+03  0.27453512-18  0.28487936+03  0.26100495+03
 0.10125896+03  0.22607879+04  0.10946265+03  0.17010094+03  0.16256636+03  0.42901333+01

              258.0000     511547.50     11406.533     12.82486     12746.805     11.45698        0.       96.843         0.00
              283.2698   21421788.75         0.        16.32656     35984.833      0.83460        0.        7.841         0.00
               27.9742        202.80     30033.005      0.22435         69.457      5.15092        0.        0.404         0.03
 0.             0.83460177+00  0.11792033+05  0.15266250+07  0.89662400+00 -0.35582510-00 -0.26353409-00  0.26282204+02
 0.22434567-00  0.             0.45752753+04  0.54425578+06  0.34210774-00  0.93454842+00 -0.97873639-01  0.69994658+02
 0.44999672-01  0.             0.15798516+04  0.21360390+08  0.28111159-00 -0.24011658-02  0.95967039+00  0.73673441+02
 0.35028616+03 -0.35028616+03  0.45294547+04  0.36391592+02  0.36021125+02  0.49161328+04  0.42333742+03  0.68859056+08
 0.19232684+01  0.96515561+08  0.15317555+03  0.43239708+03
 0.28842667+07 -0.18041471+08  0.92785599+05  0.50878718+07  0.12221920+08  0.76400872+00 -0.11517452+10 -0.33937371+05
 0.21559574+08  0.63383699+06  0.12412972+05  0.28576836+02  0.17636770+03  0.27453512-18  0.28490617+03  0.26099902+03
 0.10129388+03  0.22627737+04  0.10903604+03  0.17014497+03  0.16265271+03  0.43234953+01

              263.0000     524014.50     11506.899     12.35660     12850.087     11.04775        0.       96.939         0.00
              283.4378   21434274.00         0.        15.93681     35637.547      0.84273        0.        8.088         0.00
               27.9563        211.78     30033.005     -0.02185         69.457      5.05056        0.        0.499         0.03
 0.             0.84273490+00  0.11902090+05  0.15858600+07  0.89783534+00 -0.35723320-00 -0.25743423-00  0.26125024+02
-0.21851241-01  0.             0.46174928+04  0.56723677+06  0.34423118-00  0.93400981+00 -0.95541516-01  0.69865128+02
-0.13239458-02  0.             0.14641515+04  0.21368000+08  0.27457701-00 -0.28363053-02  0.96155918+00  0.74063192+02
 0.35028616+03 -0.35028616+03  0.45614769+04  0.37835842+02  0.37464377+02  0.49495988+04  0.42785393+03  0.69009221+08
 0.16779286+01  0.96515566+08  0.15331979+03  0.43239709+03
 0.29506889+07 -0.17974849+08  0.91606975+05  0.51914175+07  0.12258206+08  0.75927236+00 -0.11483360+10 -0.33887106+05
 0.21565522+08  0.63978475+06  0.12535189+05  0.28577491+02  0.17642921+03  0.27453512-18  0.28503844+03  0.26097135+03
 0.10146766+03  0.22728579+04  0.10678335+03  0.17036651+03  0.16308648+03  0.44912998+01

              273.0000     547924.50     11714.665     11.46340     13063.210     10.26641        0.       97.132         0.00
              283.7787   21458222.25         0.        15.76894     34942.977      0.85949        0.        9.153         0.00
               27.9191        230.00     30033.005      0.07393         69.457      4.94089        0.        0.466         0.02
 0.             0.85948617+00  0.12124663+05  0.17059908+07  0.89886071+00 -0.35654270-00 -0.25479961-00  0.25991286+02
 0.73933148-01  0.             0.47028641+04  0.61383768+06  0.34379143-00  0.93427416+00 -0.94534209-01  0.69891962+02
 0.61416305-03  0.             0.12341303+04  0.21381490+08  0.27175851-00 -0.26248011-02  0.96236009+00  0.74231064+02
 0.35028616+03 -0.35028616+03  0.46217143+04  0.41414321+02  0.41041720+02  0.50134147+04  0.43012217+03  0.69309551+08
 0.13636071+01  0.96515576+08  0.15356611+03  0.43239711+03
 0.30892571+07 -0.17636481+08  0.89285336+05  0.54047120+07  0.12333263+08  0.74951828+00 -0.11413474+10 -0.33783833+05
 0.21577270+08  0.65153275+06  0.12783144+05  0.28578799+02  0.17651049+03  0.27453512-18  0.28530899+03  0.26091629+03
 0.10181947+03  0.22937652+04  0.10242333+03  0.17079478+03  0.16392494+03  0.48314629+01

              283.0000     570515.25     11932.225     10.61748     13285.381      9.52523        0.       97.328         0.00
              284.1263   21480952.75         0.        14.98853     34248.407      0.87692        0.        9.565         0.00
               27.8801        248.60     30033.005      0.07644         69.457      4.93591        0.        0.491         0.02
 0.             0.87691686+00  0.12351213+05  0.18283666+07  0.90215332+00 -0.35678038-00 -0.24253473-00  0.25557429+02
 0.76436464-01  0.             0.47896906+04  0.66129901+06  0.34529378-00  0.93418314+00 -0.89840908-01  0.69800269+02
 0.26429164-02  0.             0.10038704+04  0.21392631+08  0.25862566-00 -0.26954256-02  0.96597199+00  0.75011470+02
 0.35028616+03 -0.35028616+03  0.46771240+04  0.45626058+02  0.45252536+02  0.50730362+04  0.43087974+03  0.69609881+08
 0.11702038+01  0.96515586+08  0.15382622+03  0.43239713+03
 0.32352775+07 -0.17690463+08  0.86993065+05  0.56272536+07  0.12411955+08  0.73934183+00 -0.11341113+10 -0.33676568+05
 0.21588632+08  0.66289475+06  0.13036800+05  0.28580172+02  0.17659156+03  0.27453512-18  0.28558610+03  0.26086102+03
 0.10217765+03  0.23157529+04  0.98183381+02  0.17121003+03  0.16473670+03  0.51777931+01

              293.0000     591825.00     12159.139      9.81306     13516.826      8.81908        0.       97.526         0.00
              284.4808   21502203.50         0.        14.20267     33553.836      0.89507        0.        9.934         0.00
               27.8393        267.58     30033.005      0.08283         69.457      4.99278        0.        0.532         0.01
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CASE  1                         TRAJECTORY ID  -6 NOM                         SECTION  5                            PAGE  44
 0.             0.89506920+00 0.12582169+05 0.19530298+07 0.90520696+00 -0.35727580-00 -0.23010906-00 0.25148827+02
 0.82795039-01 0.             0.48782609+04 0.70963723+06 0.34720808-00 0.93399328+00 -0.85082861-01 0.69695576+02
-0.17961933-02 0.             0.77211826+03 0.21401563+08 0.24531868-00 -0.28320724-02 0.96943643+00 0.75799333+02
 0.35028616+03 -0.35028616+03 0.47279513+04 0.50285484+02 0.49910928+02 0.51285229+04 0.43125883+03 0.69910211+08
 0.10439514+01 0.96515596+08 0.15404331+03 0.43239715+03
 0.33897606+07 -0.17535977+08 0.84727338+05 0.58598884+07 0.12494635+08 0.72870272+00 -0.11266066+10 -0.33564962+05
 0.21599510+08 0.67377175+06 0.13296847+05 0.28581501+02 0.17667363+03 0.27453512-18 0.28586785+03 0.26080655+03
 0.10254148+03 0.23389303+04 0.94023441+02 0.17161594+03 0.16552824+03 0.55304482+01

               303.0000    611889.00    12396.029     9.04972    13757.604     8.14765     0.     97.726      0.
               284.8423  21522311.25        0.       13.37245    32859.266     0.91399     0.     10.229      0.00
                27.7965       286.95    30033.005     0.08100       69.457     0.          0.      0.549      0.
 0.             0.91398891+00 0.12817707+05 0.20800252+07 0.90838380+00 -0.35741460-00 -0.21700106-00 0.24717048+02
 0.81001060-01 0.             0.49686932+04 0.75887038+06 0.34834442-00 0.93393999+00 -0.80057908-01 0.69613912+02
-0.28320844-02 0.             0.53868578+03 0.21408118+08 0.23128017-00 -0.28677021-02 0.97288103+00 0.76627547+02
 0.35028616+03 -0.35028616+03 0.47744317+04 0.55381219+02 0.55005400+02 0.51800989+04 0.43148637+03 0.70210541+08
 0.             0.96515600+08 0.15423597+03 0.43239716+03
 0.35533652+07 -0.17372373+08 0.82487071+05 0.61031722+07 0.12581635+08 0.71757524+00 -0.11188163+10 -0.33448712+05
 0.21609935+08 0.68416700+06 0.13563534+05 0.28582750+02 0.17675659+03 0.27453512-18 0.28615427+03 0.26075321+03
 0.10291084+03 0.23634017+04 0.89946251+02 0.17201233+03 0.16629913+03 0.58896632+01

               313.0000    630743.75    12642.774     8.32624    14007.832     7.50991     0.     97.928      0.
               285.2110  21541211.25        0.       12.51683    32164.696     0.93373     0.     10.463      0.00
                27.7516       306.73    30033.005     0.09068       69.457     0.          0.      0.571      0.
 0.             0.93372576+00 0.13058085+05 0.22094000+07 0.91143087+00 -0.35764866-00 -0.20341296-00 0.24296158+02
 0.90676966-01 0.             0.50610102+04 0.80901720+06 0.34974097-00 0.93385013+00 -0.74846939-01 0.69528527+02
-0.60146736-02 0.             0.30321168+03 0.21412329+08 0.21672643-00 -0.29240086-02 0.97622599+00 0.77483165+02
 0.35028616+03 -0.35028616+03 0.48167948+04 0.60865414+02 0.60488272+02 0.52279463+04 0.43163811+03 0.70510871+08
 0.             0.96515600+08 0.15441843+03 0.43239719+03
 0.37268547+07 -0.17198883+08 0.80270732+05 0.63577513+07 0.12673335+08 0.70592944+00 -0.11107209+10 -0.33327480+05
 0.21619815+08 0.69407675+06 0.13837184+05 0.28583975+02 0.17684046+03 0.27453512-18 0.28644601+03 0.26070042+03
 0.10328647+03 0.23892868+04 0.85950977+02 0.17239934+03 0.16704954+03 0.62556133+01

               323.0000    648423.75    12899.480     7.64131    14267.650     6.90480     0.     98.133      0.
               285.5871  21558938.75        0.       11.59705    31470.125     0.95433     0.     10.601      0.00
                27.7047       326.92    30033.005     0.09100       69.457     0.          0.      0.590      0.
 0.             0.95433382+00 0.13303529+05 0.23412037+07 0.91449867+00 -0.35785263-00 -0.18875706-00 0.23865367+02
 0.91004407-01 0.             0.51553523+04 0.86009726+06 0.35110593-00 0.93377177+00 -0.69221869-01 0.69445025+02
 0.47691538-02 0.             0.65318268+02 0.21414174+08 0.20102753-00 -0.29703843-02 0.97957976+00 0.78402945+02
 0.35028616+03 -0.35028616+03 0.48552632+04 0.66683386+02 0.66304743+02 0.52722327+04 0.43174651+03 0.70811201+08
 0.             0.96515600+08 0.15458053+03 0.43239719+03
 0.39110756+07 -0.17014662+08 0.78076853+05 0.66243183+07 0.12770154+08 0.69373311+00 -0.11022998+10 -0.33209900+05
 0.21629234+08 0.70349599+06 0.14118136+05 0.28585140+02 0.17692539+03 0.27453512-18 0.28674289+03 0.26064847+03
 0.10366828+03 0.24167190+04 0.82033019+02 0.17277744+03 0.16778017+03 0.66284986+01

               333.0000    664963.00    13166.285     6.99367    14537.230     6.33129     0.     98.341      0.
               285.9709  21575527.75        0.       10.66039    30775.555     0.97587     0.     10.692      0.00
                27.6555       347.54    30033.005     0.10370       69.457     0.          0.      0.623      0.
 0.             0.97587208+00 0.13554288+05 0.24754883+07 0.91729248+00 -0.35828587-00 -0.17378476-00 0.23466584+02
 0.10369740-00 0.             0.52518144+04 0.91213123+06 0.35263198-00 0.93360525+00 -0.63470746-01 0.69351617+02
 0.28196118-02 0.            -0.17538447+03 0.21413627+08 0.18498731-00 -0.30607987-02 0.98273408+00 0.79339606+02
 0.35028616+03 -0.35028616+03 0.48900511+04 0.72776922+02 0.72396584+02 0.53131142+04 0.43182781+03 0.71111531+08
 0.             0.96515600+08 0.15472785+03 0.43239722+03
 0.41069666+07 -0.16818771+08 0.75904055+05 0.69036131+07 0.12872561+08 0.68095188+00 -0.10935305+10 -0.33068573+05
 0.21638156+08 0.71241824+06 0.14406745+05 0.28586242+02 0.17701143+03 0.27453512-18 0.28704506+03 0.26059736+03
 0.10405652+03 0.24458475+04 0.78190740+02 0.17314681+03 0.16849124+03 0.70085429+01

CASE  1                         TRAJECTORY ID  -6 NOM                         SECTION  5                            PAGE  45

               343.0000    680395.75    13443.363     6.38186    14816.776     5.78818     0.     98.551      0.
               286.3625  21591012.25        0.        9.65858    30080.985     0.99840     0.     10.690      0.00
                27.6039       368.61    30033.005     0.10408       69.457     0.          0.      0.631      0.
 0.             0.99840498+00 0.13810617+05 0.26123080+07 0.92017050+00 -0.35833752-00 -0.15772047-00 0.23048979+02
 0.10408486-00 0.             0.53505010+04 0.96514094+06 0.35374027-00 0.93358532+00 -0.57295296-01 0.69283741+02
 0.59001666-02 0.            -0.41934188+03 0.21410656+08 0.16777682-00 -0.30706170-02 0.98581813+00 0.80341414+02
 0.35028616+03 -0.35028616+03 0.49213656+04 0.79075650+02 0.78693412+02 0.53507274+04 0.43189105+03 0.71411861+08
 0.             0.96515600+08 0.15486173+03 0.43239724+03
 0.43155817+07 -0.16610156+08 0.73750924+05 0.71964411+07 0.12981680+08 0.66754832+00 -0.10843889+10 -0.32930060+05
 0.21646577+08 0.72083949+06 0.14703393+05 0.28587276+02 0.17709884+03 0.27453512-18 0.28735256+03 0.26054707+03
 0.10445141+03 0.24768411+04 0.74417762+02 0.17350806+03 0.16918364+03 0.73959529+01

               353.0000    694753.00    13730.925     5.80440    15106.528     5.27428     0.     98.763      0.
               286.7622  21605424.00        0.        8.61233    29386.415     1.02200     0.     10.616      0.00
                27.5500       390.13    30033.005     0.10436       69.457     0.          0.      0.640      0.
 0.             0.10220130+01 0.14072805+05 0.27517200+07 0.92286563+00 -0.35841799-00 -0.14089253-00 0.22651320+02
 0.10435729-00 0.             0.54514587+04 0.10191488+07 0.35480915-00 0.93355428+00 -0.50824888-01 0.69218251+02
 0.75698975-02 0.            -0.66703299+03 0.21405227+08 0.14974760-00 -0.30853930-02 0.98871729+00 0.81387697+02
 0.35028616+03 -0.35028616+03 0.49494043+04 0.85503989+02 0.85119838+02 0.53851943+04 0.43194166+03 0.71712191+08
 0.             0.96515600+08 0.15498332+03 0.43239725+03
 0.45381012+07 -0.16387636+08 0.71616186+05 0.75036692+07 0.13096297+08 0.65348210+00 -0.10748488+10 -0.32784887+05
 0.21654492+08 0.72875399+06 0.15008481+05 0.28588302+02 0.17718785+03 0.27453512-18 0.28766583+03 0.26049709+03
 0.10485364+03 0.25098899+04 0.70708434+02 0.17386170+03 0.16985810+03 0.77909803+01

               363.0000    708067.50    14029.216     5.25974    15406.757     4.78831     0.     98.979      0.
               287.1702  21618795.00        0.        7.50877    28691.844     1.04674     0.     10.460      0.00
                27.4935       412.13    30033.005     0.11389       69.457     0.          0.      0.670      0.
 0.             0.10467436+01 0.14341091+05 0.28937842+07 0.92524041+00 -0.35884862-00 -0.12309701-00 0.22295365+02
 0.11389422-00 0.             0.55548849+04 0.10741784+07 0.35615759-00 0.93338854+00 -0.43975008-01 0.69135593+02
 0.10978063-02 0.            -0.91897891+03 0.21397301+08 0.13067789-00 -0.31544576-02 0.99141768+00 0.82491231+02
 0.35028616+03 -0.35028616+03 0.49743561+04 0.91982086+02 0.91595671+02 0.54166242+04 0.43198305+03 0.72012521+08
 0.             0.96515600+08 0.15509365+03 0.43239728+03
 0.47758515+07 -0.16149886+08 0.69498193+05 0.78262342+07 0.13218874+08 0.63870965+00 -0.10648819+10 -0.32632528+05
 0.21661896+08 0.73615824+06 0.15322437+05 0.28589225+02 0.17727870+03 0.27453512-18 0.28798412+03 0.26044814+03
 0.10526282+03 0.25452099+04 0.67057110+02 0.17420825+03 0.17051529+03 0.81938467+01

               373.0000    720368.00    14338.527     4.74621    15717.776     4.32890     0.     99.197      0.
               287.5868  21631155.25        0.        6.35283    27997.274     1.07271     0.     10.229      0.00
                27.4344       434.61    30033.005     0.11437       69.457     0.          0.      0.686      0.
 0.             0.10727117+01 0.14615783+05 0.30385631+07 0.92745314+00 -0.35906057-00 -0.10440826-00 0.21958777+02
 0.11436655-00 0.             0.56608250+04 0.11302547+07 0.35718588-00 0.93330684+00 -0.36778174-01 0.69072527+02
 0.24741627-02 0.            -0.11757651+04 0.21386831+08 0.11065068-00 -0.31831039-02 0.99385206+00 0.83647171+02
 0.35028616+03 -0.35028616+03 0.49964004+04 0.98422049+02 0.98033261+02 0.54451086+04 0.43201759+03 0.72312851+08
 0.             0.96515600+08 0.15519359+03 0.43239730+03
 0.50303323+07 -0.15895405+08 0.67395888+05 0.81651528+07 0.13349556+08 0.62318356+00 -0.10544574+10 -0.32472411+05
 0.21668780+08 0.74304225+06 0.15645722+05 0.28590111+02 0.17737202+03 0.27453512-18 0.28830770+03 0.26039965+03
 0.10567971+03 0.25830461+04 0.63450600+02 0.17454882+03 0.17115686+03 0.86048459+01

               383.0000    731682.75    14659.189     4.26201    16039.941     3.89453     0.     99.418      0.
               288.0123  21642532.25        0.        5.14331    27302.704     1.10000     0.      9.923      0.00
                27.3725       457.59    30033.005     0.12444       69.457     0.          0.      0.698      0.
 0.             0.11300011+01 0.14897158+05 0.31861220+07 0.92938235+00 -0.35923583-00 -0.84810296-01 0.21661260+02
 0.12443815-00 0.             0.57694336+04 0.11874037+07 0.35805907-00 0.93323922+00 -0.29225284-01 0.69018955+02
 0.33003056-02 0.            -0.14380579+04 0.21373767+08 0.89647172-01 -0.32056138-02 0.99596615+00 0.84856689+02
 0.35028616+03 -0.35028616+03 0.50157069+04 0.10472887+03 0.10433743+03 0.54707219+04 0.43204681+03 0.72613181+08
 0.             0.96515600+08 0.15528388+03 0.43239732+03
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CASE  1                                       TRAJECTORY ID  -6 NOM                            SECTION  5                               PAGE  46
 0.53032459+07 -0.15622491+08  0.65307792+05  0.85215325+07  0.13489191+08  0.60685221+00 -0.10435420+10 -0.32303902+05
 0.21675137+08  0.74939950+06  0.15978827+05  0.28590923+02  0.17746541+03  0.27453512-18  0.28863589+03  0.26035193+03
 0.10610431+03  0.26236796+04  0.59875814+02  0.17488454+03  0.17178432+03  0.90242135+01

               393.0000    742038.25    14991.559     3.80565    16373.625      3.48401     0.     99.642       0.
               288.4468  21652952.25        0.        3.87130    26608.133      1.12872     0.      9.535       0.00
                27.3077       481.10    30033.005     0.12512       69.457      0.          0.      0.723       0.
 0.             0.11287152+01  0.15185516+05  0.33365293+07  0.93088135+00 -0.35963576-00 -0.64161526-01  0.21427379+02
 0.12511761-00  0.                             0.58807825+04  0.12456524+07  0.35902085-00  0.93308496+00 -0.21264140-01  0.68959922+02
-0.21020685-02  0.            -0.17064819+04  0.21358050+08  0.67515561-01 -0.32409195-02  0.99771065+00  0.86128697+02
 0.35028616+03 -0.35028616+03  0.50324354+04  0.11082529+03  0.11043107+03  0.54935467+04  0.43227186+03  0.72913511+08
 0.             0.96515600+08  0.15536519+03  0.43239734+03
 0.55965026+07 -0.15329235+08  0.63232715+05  0.88965429+07  0.13638733+08  0.58966113+00 -0.10321002+10 -0.32126316+05
 0.21680965+08  0.75522699+06  0.16322246+05  0.28591698+02  0.17756967+03  0.27453512-18  0.28896854+03  0.26030461+03
 0.10653720+03  0.26674298+04  0.56317652+02  0.17521660+03  0.17239929+03  0.94522402+01

               403.0000    751458.25    15336.056     3.37521    16719.266      3.09569     0.     99.870       0.
               288.8907  21662440.50        0.        2.54553    25913.563      1.15897     0.      9.077       0.00
                27.2399       505.14    30033.005     0.13986       69.457      0.          0.      0.733       0.
 0.             0.11589685+01  0.15481154+05  0.34898564+07  0.93205241+00 -0.35980184-00 -0.42607732-01  0.21242957+02
 0.13985856-00  0.                             0.59950037+04  0.13050289+07  0.35958308-00  0.93302081+00 -0.12949768-01  0.68925406+02
 0.68321329-02  0.            -0.19818356+04  0.21339615+08  0.44413257-01 -0.32511428-02  0.99990558+00  0.87454470+02
 0.35028616+03 -0.35028616+03  0.50467358+04  0.11661506+03  0.11621788+03  0.55136370+04  0.43209358+03  0.73213841+08
 0.             0.96515600+08  0.15543810+03  0.43239735+03
 0.59123042+07 -0.15013433+08  0.61169313+05  0.92914803+07  0.13799278+08  0.57154975+00 -0.10200924+10 -0.31938886+05
 0.21686252+08  0.76051450+06  0.16676536+05  0.28592423+02  0.17767389+03  0.27453512-18  0.28930467+03  0.26025780+03
 0.10697860+03  0.27146665+04  0.52755434+02  0.17554668+03  0.17300394+03  0.98892321+01

               413.0000    759964.00    15693.137     2.96884    17077.336      2.72801     0.    100.100       0.
               289.3443  21671016.75        0.        1.16007    25218.993      1.19089     0.      8.544       0.00
                27.1688       529.74    30033.005     0.14384       69.457      0.          0.      0.742       0.
 0.             0.11908884+01  0.15784360+05  0.36461774+07  0.93275332+00 -0.35994878-00 -0.20061918-01  0.21131843+02
 0.14384078-00  0.                             0.61122320+04  0.13655625+07  0.35993816-00  0.93296400+00 -0.42470415-02  0.68903601+02
 0.58225143-02  0.            -0.22649556+04  0.21318387+08  0.20245709-01 -0.32595956-02  0.99978728+00  0.88839927+02
 0.35028616+03 -0.35028616+03  0.50587478+04  0.12201161+03  0.12161119+03  0.55310456+04  0.43211257+03  0.73514171+08
 0.             0.96515600+08  0.15550307+03  0.43239737+03
 0.62531612+07 -0.14672577+08  0.59116312+05  0.97077390+07  0.13972077+08  0.55245298+00 -0.10074765+10 -0.31740770+05
 0.21690992+08  0.76525399+06  0.17042274+05  0.28593076+02  0.17778578+03  0.27453512-18  0.28964298+03  0.26021160+03
 0.10742874+03  0.27658165+04  0.49156728+02  0.17587734+03  0.17360173+03  0.10335473+02

               423.0000    767574.75    16063.292     2.58489    17448.341      2.37958     0.    100.334       0.
               289.8078  21678702.00        0.      359.70698    24524.422      1.22462     0.      7.931       0.00
                27.0945       554.91    30033.005     0.14617       69.457      0.          0.      0.768       0.
 0.             0.12246162+01  0.16095437+05  0.38055696+07  0.93278284+00 -0.36041297-00  0.35936572-02  0.21127149+02
 0.14617405-00  0.                             0.62325642+04  0.14272837+07  0.36039430-00  0.93278466+00  0.48585321-02  0.68875585+02
 0.69187859-02  0.            -0.25566890+04  0.21294287+08 -0.51141224-02 -0.32647954-02  0.99997914+00  0.90293018+02
 0.35028616+03 -0.35028616+03  0.50686010+04  0.12695450+03  0.12654151+03  0.55458325+04  0.43212934+03  0.73814501+08
 0.             0.96515600+08  0.15556054+03  0.43239739+03
 0.66219448+07 -0.14303793+08  0.57072540+05  0.10146812+08  0.14158562+08  0.53230103+00 -0.99420682+09 -0.31531045+05
 0.21695179+08  0.76944099+06  0.17420054+05  0.28593683+02  0.17790596+03  0.27453512-18  0.28998212+03  0.26016584+03
 0.10788807+03  0.28213738+04  0.45494144+02  0.17621066+03  0.17419506+03  0.10791321+02

               433.0000    774305.75    16447.081     2.22127    17832.851      2.04858     0.    100.572       0.
               290.2817  21685510.50        0.      358.18701    23829.852      1.26031     0.      7.241       0.00
                27.0166       580.69    30033.005     0.15642       69.457      0.          0.      0.781       0.
 0.             0.12603101+01  0.16414673+05  0.39681131+07  0.93225640+00 -0.36065318-00  0.28333339-01  0.21209092+02
 0.15642297-00  0.                             0.63561337+04  0.14902245+07  0.35037808-00  0.93269174+00  0.14448567-01  0.68876582+02
-0.33559164-02  0.            -0.28580850+04  0.21267221+08 -0.31637394-01 -0.32591919-02  0.99949160+00  0.91812990+02

CASE  1                                       TRAJECTORY ID  -6 NOM                            SECTION  5                               PAGE  47
 0.35028616+03 -0.35028616+03  0.50764146+04  0.13133710+03  0.13092947+03  0.55580379+04  0.43214423+03  0.74114831+08
 0.             0.96515600+08  0.15561085+03  0.43239741+03
 0.70219924+07 -0.13903745+08  0.55036703+05  0.10610349+08  0.14360400+08  0.51101692+00 -0.98023313+09 -0.31308675+05
 0.21698806+08  0.77306874+06  0.17810532+05  0.28594221+02  0.17803731+03  0.27453512-18  0.29031954+03  0.26012062+03
 0.10835687+03  0.28819185+04  0.41716855+02  0.17655053+03  0.17478886+03  0.11257093+02

               443.0000    780169.50    16845.094     1.87632    18231.466      1.73359     0.    100.813       0.
               290.7662  21691455.00        0.      356.60760    23135.282      1.29815     0.      6.483       0.00
                26.9351       607.08    30033.005     0.16241       69.457      0.          0.      0.787       0.
 0.             0.12981473+01  0.16742368+05  0.41338909+07  0.93107573+00 -0.36079654-00  0.54017314-01  0.21396872+02
 0.16240528-00  0.                             0.64830258+04  0.15544175+07  0.35998648-00  0.93263623+00  0.24377138-01  0.68900634+02
-0.23552862-02  0.            -0.31701469+04  0.21237089+08 -0.59173977-01 -0.32514513-02  0.99823984+00  0.93392400+02
 0.35028616+03 -0.35028616+03  0.50822974+04  0.13514023+03  0.13472867+03  0.55677237+04  0.43215757+03  0.74415161+08
 0.             0.96515600+08  0.15565430+03  0.43239743+03
 0.74571482+07 -0.13468590+08  0.53007664+05  0.11100104+08  0.14579510+08  0.48851859-00 -0.96550158+09 -0.31072520+05
 0.21701871+08  0.77613325+06  0.18214374+05  0.28594724+02  0.17818320+03  0.27453512-18  0.29065248+03  0.26007573+03
 0.10883568+03  0.29481278+04  0.37768427+02  0.17690115+03  0.17538804+03  0.11733165+02

               453.0000    785173.00    17257.987     1.54796    18644.851      1.43280     0.    101.058       0.
               291.2618  21696543.25        0.      354.96040    22440.711      1.33833     0.      5.650       0.00
                26.8497       634.11    30033.005     0.16769       69.457      0.          0.      0.798       0.
 0.             0.13383267+01  0.17078791+05  0.43029892+07  0.92904796+00 -0.36102930-00  0.80756468-01  0.21713106+02
 0.16768708-00  0.                             0.66133768+04  0.16198965+07  0.35937026-00  0.93254614+00  0.34719386-01  0.68938472+02
 0.30912918-02  0.            -0.34540860+04  0.21203779+08 -0.87844227-01 -0.32344940-02  0.99612635+00  0.95039598+02
 0.35028616+03 -0.35028616+03  0.50863479+04  0.13830934+03  0.13789353+03  0.55749434+04  0.43216956+03  0.74715491+08
 0.             0.96515600+08  0.15569109+03  0.43239745+03
 0.79319150+07 -0.12993823+08  0.50984199+05  0.11618003+08  0.14818142+08  0.46471597-00 -0.94995306+09 -0.30821308+05
 0.21704369+08  0.77863149+06  0.18632300+05  0.28595161+02  0.17834845+03  0.27453512-18  0.29097629+03  0.26003131+03
 0.10932475+03  0.30208041+04  0.33569515+02  0.17726836+03  0.17599940+03  0.12219903+02

               463.0000    789320.75    17686.462     1.23445    19073.717      1.14465     0.    101.306       0.
               291.7687  21700779.00        0.      353.24337    21746.141      1.38107     0.      4.745       0.00
                26.7603       661.89    30033.005     0.17340       69.457      0.          0.      0.807       0.
 0.             0.13810728+01  0.17424221+05  0.44754965+07  0.92612799+00 -0.36124294-00  0.10855536-00  0.22160933+02
 0.17339768-00  0.                             0.67472722+04  0.16866967+07  0.35838323-00  0.93246340+00  0.45475737-01  0.68999061+02
 0.93212514-02  0.            -0.38311245+04  0.21167164+08 -0.11765217-00 -0.32119197-02  0.99304771+00  0.96756622+02
 0.35028616+03 -0.35028616+03  0.50886541+04  0.14083134+03  0.14041106+03  0.55797715+04  0.43218042+03  0.75015821+08
 0.             0.96515600+08  0.15572140+03  0.43239746+03
 0.84515576+07 -0.12474180+08  0.48965164+05  0.12166120+08  0.15078933+08  0.43951222-00 -0.93352360+09 -0.30553618+05
 0.21770630+08  0.78057049+06  0.19065052+05  0.28595558+02  0.17853954+03  0.27453512-18  0.29128506+03  0.25998718+03
 0.10982462+03  0.31009005+04  0.29016254+02  0.17765966+03  0.17663135+03  0.12717720+02

               473.0000    792611.75    18131.286     0.93391    19518.834      0.86752     0.    101.559       0.
               292.2673  21704162.50        0.      351.46459    21051.571      1.42664     0.      3.776       0.00
                26.6666       690.19    30033.005     0.17881       69.457      0.          0.      0.810       0.
 0.             0.14266396+01  0.17778909+05  0.46515042+07  0.92226046+00 -0.36137541-00  0.13724821-00  0.22741184+02
 0.17880546-00  0.                             0.68848419+04  0.17548542+07  0.35693198-00  0.93241203+00  0.56584243-01  0.69088132+02
 0.34375582-02  0.            -0.41826111+04  0.21127108+08 -0.14842062-00 -0.31971192-02  0.98891642+00  0.98535410+02
 0.35028616+03 -0.35028616+03  0.50892937+04  0.14271506+03  0.14228994+03  0.55822949+04  0.43219029+03  0.75316151+08
 0.             0.96515600+08  0.15574533+03  0.43239748+03
 0.90222956+07 -0.11903442+08  0.46949401+05  0.12746719+08  0.15365000+08  0.41280211-00 -0.91614313+09 -0.30267856+05
 0.21707704+08  0.78196649+06  0.19513411+05  0.28595888+02  0.17876559+03  0.27453512-18  0.29156999+03  0.25994352+03
 0.11033559+03  0.31895600+04  0.23964538+02  0.17808537+03  0.17729516+03  0.13227031+02

               483.0000    795039.50    18593.286     0.64464    19981.037      0.59987     0.    101.816       0.
               292.8181  21706686.75        0.      349.62548    20357.000      1.47532     0.      2.747       0.00
                26.5684       719.30    30033.005     0.18606       69.457      0.          0.      0.826       0.
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CASE  1                              TRAJECTORY ID  -6 NOM                         SECTION  5                          PAGE  48
 0.             0.14753158+01  0.18143120+05  0.48311061+07  0.91725028+00 -0.36170791-00  0.16677160-00  0.23472659+02
 0.18605856-00  0.                            0.70261517+04  0.18244059+07  0.35526869-00  0.93228319+00  0.68017907-01  0.69190086+02
-0.70185105-03  0.            -0.45499673+04  0.21083459+08 -0.18008168-00 -0.31406998-02  0.98364384+00  0.10037451+03
 0.35028616+03 -0.35028616+03  0.50883353+04  0.14400179+03  0.14357161+03  0.55826232+04  0.43219931+03  0.75616481+08
 0.             0.96515600+08  0.15576293+03  0.43239751+03
 0.96515164+07 -0.11274222+08  0.44935771+05  0.13362252+08  0.15680055+08  0.38447178-00 -0.89773536+09 -0.29962232+05
 0.21708594+08  0.78285550+06  0.19978186+05  0.28596187+02  0.17903955+03  0.27453512-18  0.29181884+03  0.25993008+03
 0.11085831+03  0.32881626+04  0.18213971+02  0.17855960+03  0.17800587+03  0.13748282+02

                493.0000     796593.00     19073.370      0.36489      20461.233      0.34014       0.      102.077        0.
                293.3616   21708341.50        0.        347.74171      19662.430      1.52743       0.        1.677        0.00
                 26.4655        749.15     30033.005      0.19566         69.457      0.            0.        0.835        0.
 0.             0.15274309+01  0.18517083+05  0.50143987+07  0.91118723+00 -0.36192375-00  0.19683074-00  0.24330062+02
 0.19565772-00  0.             0.71713287+04  0.18953899+07  0.35306043-00  0.93219946+00  0.79665147-01  0.69325380+02
-0.25800957-02  0.            -0.49347491+04  0.21036050+08 -0.21231906-00 -0.30967030-02  0.97719262+00  0.10225829+03
 0.35028616+03 -0.35028616+03  0.50858378+04  0.14476401+03  0.14432837+03  0.55808879+04  0.43220758+03  0.75916811+08
 0.             0.96515600+08  0.15577415+03  0.43239751+03
 0.10348073+08 -0.10577664+08  0.42923117+05  0.14015407+08  0.16028557+08  0.35439765-00 -0.87821627+09 -0.29634713+05
 0.21709040+08  0.78330174+06  0.20460214+05  0.28596424+02  0.17938023+03  0.27453512-18  0.29201276+03  0.25985701+03
 0.11139309+03  0.33983926+04  0.11476943+02  0.17910233+03  0.17878421+03  0.14281945+02

                503.0000     797255.50     19572.524      0.09308      20960.412      0.08691       0.      102.342        0.
                293.9181   21709109.75        0.        345.79065      18967.860      1.58336       0.        0.545        0.00
                 26.3577        779.77     30033.005      0.19658         69.457      0.            0.        0.846        0.
 0.             0.15833628+01  0.18901061+05  0.52014809+07  0.90385309+00 -0.36218578-00  0.22773721-00  0.25330745+02
 0.19657845-00  0.             0.73204004+04  0.19678450+07  0.35041311-00  0.93209780+00  0.91641530-01  0.69487414+02
 0.55021350-02  0.            -0.53385884+04  0.20984700+08 -0.24546559-00 -0.30283584-02  0.96939760+00  0.10420935+03
 0.35028616+03 -0.35028616+03  0.50818512+04  0.14511340+03  0.14467224+03  0.55772507+04  0.43221521+03  0.76217141+08
 0.             0.96515600+08  0.15577894+03  0.43239754+03
 0.11122662+08 -0.98030760+07  0.40910292+05  0.14709123+08  0.16415913+08  0.32244632-00 -0.85749356+09 -0.29282991+05
 0.21709163+08  0.78342550+06  0.20960335+05  0.28596671+02  0.17981761+03  0.27453512-18  0.29212344+03  0.25981393+03
 0.11194082+03  0.35223254+04  0.32970189+01  0.17974519+03  0.17966302+03  0.14828515+02

                513.0000     797016.25     20091.813     -0.16239      21479.643     -0.15190       0.      102.612        0.
                294.4881   21708980.25        0.        344.34720      18273.290      1.64355       0.       -0.083        0.00
                 26.2446        811.20     30033.005      0.23550         69.457      0.            0.        0.857        0.
 0.             0.16435467+01  0.19296104+05  0.53924565+07  0.89772443+00 -0.36244725-00  0.25043133-00  0.26139452+02
 0.23550438-00  0.             0.74736956+04  0.20418125+07  0.34826411-00  0.93199630+00  0.10044235-00  0.69618823+02
-0.29669049-02  0.            -0.57598863+04  0.20929221+08 -0.26980721-00 -0.29532891-02  0.96290679+00  0.10565279+03
 0.35028616+03 -0.35028616+03  0.50764239+04  0.14526398+03  0.14481673+03  0.55719841+04  0.43222225+03  0.76517471+08
 0.             0.96515600+08  0.15577724+03  0.43239756+03
 0.11988323+08 -0.89374147+07  0.38896140+05  0.15446641+08  0.16848747+08  0.28847390-00 -0.83546511+09 -0.28904413+05
 0.21709170+08  0.78343274+06  0.21479378+05  0.28596812+02  0.18037482+03  0.27453512-18  0.29212678+03  0.25977142+03
 0.11250145+03  0.36625481+04  0.36559363+04  0.18050438+03  0.18064988+03  0.15388514+02

                523.0000     795878.25     20632.462     -0.41213      22020.151     -0.38616       0.      102.886        0.
                295.0722   21707958.00        0.        342.10968      17578.719      1.70849       0.       -1.497        0.00
                 26.1260        843.47     30033.005      0.21201         69.457      0.            0.        0.865        0.
 0.             0.17084865+01  0.19701841+05  0.55874375+07  0.88717030+00 -0.36267361-00  0.28528862-00  0.27480205+02
 0.21200579-00  0.             0.76316000+04  0.21173365+07  0.34431451-00  0.93190841+00  0.11396383-00  0.69860043+02
-0.28927439-02  0.            -0.62034841+04  0.20869425+08 -0.30719579-00 -0.28762895-02  0.95163886+00  0.10789031+03
 0.35028616+03 -0.35028616+03  0.50696669+04  0.14528712+03  0.14483349+03  0.55652401+04  0.43222877+03  0.76817801+08
 0.             0.96515600+08  0.15576904+03  0.43239757+03
 0.12961254+08 -0.79644839+07  0.36879275+05  0.16231661+08  0.17335337+08  0.25232181-00 -0.81201418+09 -0.28495862+05
 0.21709421+08  0.78368375+06  0.22018166+05  0.28596924+02  0.18114457+03  0.27453512-18  0.29193149+03  0.25972909+03
 0.11307593+03  0.38223494+04  0.38026538+04  0.18148126+03  0.18185498+03  0.15962504+02
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CASE  1                              TRAJECTORY ID  -6 NOM                         SECTION  5                          PAGE  49

                533.0000     793797.25     21195.815     -0.66060      22583.281     -0.62001       0.      103.165        0.
                295.6708   21705997.50        0.        340.02503      16884.149      1.77877       0.       -2.745        0.00
                 26.0016        876.62     30033.005      0.20957         69.457      0.            0.        0.862        0.
 0.             0.17787692+01  0.20118243+05  0.57865285+07  0.87618692+00 -0.36271813-00  0.31737164-00  0.28814239+02
 0.20957230-00  0.             0.77935050+04  0.21944583+07  0.33998843-00  0.93189105+00  0.12641317-00  0.70123830+02
 0.49402892-02  0.            -0.66724946+04  0.20905067+08 -0.34160955-00 -0.28588450-02  0.93983433+00  0.10997497+03
 0.35028616+03 -0.35028616+03  0.50615586+04  0.14541070+03  0.14495037+03  0.55572554+04  0.43223487+03  0.77118131+08
 0.             0.96515600+08  0.15575401+03  0.43239760+03
 0.14061352+08 -0.68643860+07  0.34858947+05  0.17768166+08  0.17886014+08  0.21383534-00 -0.78701380+09 -0.28053766+05
 0.21710676+08  0.78493825+06  0.22577091+05  0.28597008+02  0.18228064+03  0.27453512-18  0.29138422+03  0.25968689+03
 0.11366487+03  0.40059200+04  0.39676484+04  0.18283366+03  0.18343934+03  0.16551081+02

                543.0000     790729.25     21783.388     -0.90691      23170.544     -0.85261       0.      103.449        0.
                296.2846   21703055.50        0.        337.91924      16189.579      1.85508       0.       -4.000        0.00
                 25.8710        910.68     30033.005      0.20923         69.457      0.            0.        0.880        0.
 0.             0.18550825+01  0.20545787+05  0.59898389+07  0.86377849+00 -0.36309005-00  0.34934922-00  0.30256482+02
 0.20922668-00  0.             0.79596188+04  0.22732211+07  0.33551253-00  0.93174656+00  0.13882669-00  0.70396291+02
-0.56853519-02  0.            -0.71684063+04  0.20735885+08 -0.37591312-00 -0.27044275-02  0.92664757+00  0.11208076+03
 0.35028616+03 -0.35028616+03  0.50521233+04  0.14592388+03  0.14545641+03  0.55483333+04  0.43224046+03  0.77418461+08
 0.             0.96515600+08  0.15573177+03  0.43239761+03
 0.15313349+08 -0.56123888+07  0.32835137+05  0.17960656+08  0.18513966+08  0.17287583-00 -0.76032007+09 -0.27573901+05
 0.21714583+08  0.78884549+06  0.23155678+05  0.28597053+02  0.18408526+03  0.27453512-18  0.29018361+03  0.25964491+03
 0.11426865+03  0.42187241+04  0.41518838+04  0.18486389+03  0.18570373+03  0.17154878+02

                553.0000     786627.00     22396.900     -1.15166      23783.658     -1.08450       0.      103.737        0.
                296.9141   21699085.50        0.        335.82216      15495.008      1.93824       0.       -5.233        0.00
                 25.7340        945.70     30033.005      0.20586         69.457      0.            0.        0.878        0.
 0.             0.19382374+01  0.20984897+05  0.61974822+07  0.85038719+00 -0.36315732-00  0.38072409-00  0.31746192+02
 0.20586058-00  0.             0.81306686+04  0.23536696+07  0.33028249-00  0.93172035+00  0.15100880-00  0.70714077+02
 0.30113781-02  0.            -0.76934186+04  0.20661601+08 -0.40957011-00 -0.26694096-02  0.91227124+00  0.11417783+03
 0.35028616+03 -0.35028616+03  0.50413736+04  0.14714482+03  0.14666999+03  0.55388045+04  0.43224572+03  0.77718791+08
 0.             0.96515600+08  0.15570189+03  0.43239763+03
 0.16747206+08 -0.41785322+07  0.30810583+05  0.18914231+08  0.19236311+08  0.12939621-00 -0.73176917+09 -0.27051232+05
 0.21725417+08  0.79967924+06  0.23750575+05  0.28597091+02  0.18732647+03  0.27453512-18  0.28756227+03  0.25960296+03
 0.11488870+03  0.44680151+04  0.43511416+04  0.18834127+03  0.18941679+03  0.17774575+02

                563.0000     781438.75     23038.344     -1.39474      24424.612     -1.31556       0.      104.031        0.
                297.5599   21694035.00        0.        333.75230      14800.438      2.02920       0.       -6.423        0.00
                 25.5901        981.71     30033.005      0.21153         69.457      0.            0.        0.880        0.
 0.             0.20291970+01  0.21436158+05  0.64095765+07  0.83602782+00 -0.36328178-00  0.41118874-00  0.33276985+02
 0.21152817-00  0.             0.83063265+04  0.24358504+07  0.32475013-00  0.93167193+00  0.16284235-00  0.71049563+02
 0.30413672-02  0.            -0.82497127+04  0.20581913+08 -0.44225261-00 -0.26070973-02  0.83688314+00  0.11624769+03
 0.35028616+03 -0.35028616+03  0.50293201+04  0.14940529+03  0.14892263+03  0.55290115+04  0.43225065+03  0.78019121+08
 0.             0.96515600+08  0.15566384+03  0.43239765+03
 0.18393480+08 -0.25322577+07  0.28799808+05  0.19934767+08  0.20075732+08  0.83795314-01 -0.70117190+09 -0.26479650+05
 0.21757984+08  0.83224674+06  0.24346404+05  0.28597087+02  0.19458616+03  0.27453512-18  0.28093885+03  0.25956120+03
 0.11552501+03  0.47636410+04  0.45365766+04  0.19584863+03  0.19715980+03  0.18410902+02

                573.0000     775110.75     23710.036     -1.63595      25095.720     -1.54560       0.      104.330        0.
                298.2229   21687851.50        0.        331.71252      14105.869      2.12911       0.       -7.568        0.00
                 25.4389       1018.78     30033.005      0.19674         69.457      0.            0.        0.891        0.
 0.             0.21291140+01  0.21900327+05  0.66262475+07  0.82074963+00 -0.36353914-00  0.44068303-00  0.34840094+02
 0.19674377-00  0.             0.84870663+04  0.25198129+07  0.31903810-00  0.93157185+00  0.17430229-00  0.71395237+02
-0.15038919-02  0.            -0.88397163+04  0.20496495+08 -0.47389571-00 -0.24638225-02  0.88057379+00  0.11828747+03
 0.35028616+03 -0.35028616+03  0.50159744+04  0.15305299+03  0.15256216+03  0.55193135+04  0.43225526+03  0.78319451+08
 0.             0.96515600+08  0.15561705+03  0.43239767+03
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CASE  1                               TRAJECTORY ID  -6 NOM                                SECTION  5                               PAGE  50
 0.20218550+08 -0.70718800+06  0.26909655+05  0.21029089+08  0.21062940+08  0.40088870-01 -0.66830840+09 -0.25851661+05
 0.21907329+08  0.98159099+06  0.24835259+05  0.28597063+02  0.22073934+03  0.27453512-18  0.25543932+03  0.25951952+03
 0.11617868+03  0.51192978+04  0.44963530+04  0.22226208+03  0.22389681+03  0.19064653+02

               583.0000     767587.25     24414.734     -1.87415     25799.739     -1.77351        0.     104.635        0.
               298.9038   21680478.75          0.       329.75215    13411.300      2.23938        0.      -8.618        0.00
                25.2800      1056.94     30033.005       0.19082        69.457      0.             0.       0.889        0.
 0.             0.22393806+01  0.22376513+05  0.68476292+07  0.80515957+00 -0.36361600-00  0.46950134-00  0.36374331+02
 0.19082244-00  0.                            0.85733341+04  0.26050100+07  0.31297731-00  0.93154188+00  0.18511474-00  0.71761251+02
 0.36402088-03  0.             -0.94656307+04  0.20404998+08 -0.50374158+00 -0.24165731-02  0.86384714+00  0.12024785+03
 0.35028616+03 -0.35028616+03  0.50013509+04  0.15840442+03  0.15790502+03  0.55100415+04  0.43225960+03  0.78619781+08
 0.             0.96515600+08  0.15556088+03  0.43239769+03
 0.21353377+08  0.42763975+06  0.26182403+05  0.22205283+08  0.22240683+08  0.39895588-01 -0.63291849+09 -0.25157871+05
 0.23127988+08  0.22022500+07  0.24173427+05  0.28597011+02  0.30735415+03  0.27453512-18  0.16949647+03  0.25947796+03
 0.11685053+03  0.55546168+04  0.35345451+04  0.30915009+03  0.31092276+03  0.19736689+02

               593.0000     758814.75     25155.718     -2.10781     26539.946     -1.99783        0.     104.945        0.
               299.6033   21671864.25          0.       327.87160    12716.731      2.36169        0.      -9.574        0.00
                25.1129      1096.25     30033.005       0.18072        69.457      0.             0.       0.890        0.
 0.             0.23616923+01  0.22872209+05  0.70738689+07  0.78929257+00 -0.36374535-00  0.49467007-00  0.37880549+02
 0.18072055-00  0.                            0.88656671+04  0.26932995+07  0.30688557-00  0.93149152+00  0.19528746-00  0.72128358+02
 0.22661838-02  0.             -0.10130683+05  0.20307049+08 -0.53181828+00 -0.23317922-02  0.84695122+00  0.12212839+03
 0.35028616+03 -0.35028616+03  0.49854711+04  0.16574466+03  0.16523647+03  0.55015019+04  0.43226368+03  0.78920111+08
 0.             0.96515600+08  0.15549462+03  0.43239771+03
 0.21509324+08  0.58358599+06  0.26724246+05  0.23473002+08  0.23670285+08  0.91294256-01 -0.59469245+09 -0.24386317+05
 0.25831246+08  0.49055080+07  0.22252913+05  0.28596970+02  0.33555321+03  0.27453512-18  0.14198847+03  0.25943633+03
 0.11754166+03  0.60986584+04  0.33945040+04  0.33763555+03  0.33962584+03  0.20427959+02

               603.0000     748743.50     25936.945     -2.33460     27320.298     -2.21632        0.     105.261        0.
               300.3224   21661959.00          0.       326.11798    12022.162      2.49814        0.     -10.389        0.00
                24.9370      1136.78     30033.005       0.16890        69.457      0.             0.       0.885        0.
 0.             0.24981368+01  0.23383445+05  0.73051311+07  0.77376030+00 -0.36379775-00  0.51859220+00  0.39307227+02
 0.16800149-00  0.                            0.90648399+04  0.27829458+07  0.30082865-00  0.93147105+00  0.20458741-00  0.72492619+02
-0.34812032-02  0.             -0.10837058+05  0.20202246+08 -0.55748462+00 -0.22941826-02  0.83017983+00  0.12388202+03
 0.35028616+03 -0.35028616+03  0.49663660+04  0.17528471+03  0.17476759+03  0.54939368+04  0.43226752+03  0.79220441+08
 0.             0.96515600+08  0.15541750+03  0.43239773+03
 0.21538769+08  0.61303174+06  0.27455959+05  0.24843939+08  0.25443060+08  0.15345208-00 -0.55325653+09 -0.23521405+05
 0.29347350+08  0.84216128+07  0.20150658+05  0.28596960+02  0.34318678+03  0.27453512-18  0.13506640+03  0.25939460+03
 0.11825317+03  0.67965097+04  0.36293378+04  0.34556873+03  0.34775993+03  0.21139518+02

               613.0000     737333.00     26763.235     -2.55109     28145.619     -2.42571        0.     105.583        0.
               301.0622   21650722.00          0.       324.51558    11327.593      2.65131        0.     -11.042        0.00
                24.7518      1178.61     30033.005       0.14980        69.457      0.             0.       0.878        0.
 0.             0.26513140+01  0.23915028+05  0.75416049+07  0.75893880+00 -0.36383353-00  0.54002644+00  0.40629265+02
 0.14979840-00  0.                            0.92719265+04  0.28746223+07  0.29503360-00  0.93145707+00  0.21292014-00  0.72840448+02
 0.13284500-02  0.             -0.11587867+05  0.20090161+08 -0.58048162+00 -0.22673550-02  0.81426573+00  0.12548442+03
 0.35028616+03 -0.35028616+03  0.49500810+04  0.18711365+03  0.18658755+03  0.54874808+04  0.43227116+03  0.79520771+08
 0.             0.96515600+08  0.15532875+03  0.43239775+03
 0.21543502+08  0.61776400+06  0.28260350+05  0.26332486+08  0.27701332+08  0.22229363-00 -0.50815389+09 -0.22542269+05
 0.33859161+08  0.12933423+08  0.17981157+05  0.28596991+02  0.34659834+03  0.27453512-18  0.13238796+03  0.25935270+03
 0.11898629+03  0.77211661+04  0.40394850+04  0.34929224+03  0.35165867+03  0.21872530+02

               623.0000     724558.25     27640.481     -2.75286     29021.809     -2.62174        0.     105.911        0.
               301.8238   21638128.75          0.       323.09827    10633.023      2.82450        0.     -11.502        0.00
                24.5566      1221.80     30033.005       0.13021        69.457      0.             0.       0.886        0.
 0.             0.28245028+01  0.24470652+05  0.77835110+07  0.74522871+00 -0.36408446-00  0.55863042+00  0.41821253+02
 0.13020592-00  0.                            0.94885289+04  0.29684158+07  0.28998704-00  0.93135938+00  0.22015703-00  0.73142819+02
 0.15473870-02  0.             -0.12386298+05  0.19970331+08 -0.60044429+00 -0.20716757-02  0.79965923+00  0.12690172+03


CASE  1                               TRAJECTORY ID  -6 NOM                                SECTION  5                               PAGE  51
 0.35028616+03 -0.35028616+03  0.49306827+04  0.20117678+03  0.20064095+03  0.54821456+04  0.43227460+03  0.79821101+08
 0.             0.96515600+08  0.15522759+03  0.43239776+03
 0.21539222+08  0.61348499+06  0.29124556+05  0.27956503+08  0.30679797+08  0.29793461-00 -0.45882114+09 -0.21420110+05
 0.39820369+08  0.18894631+08  0.15753753+05  0.28596911+02  0.34854568+03  0.27453512-18  0.13119515+03  0.25931121+03
 0.11974183+03  0.89993393+04  0.46479583+04  0.35156358+03  0.35406800+03  0.22628320+02

               633.0000     710414.00     28575.970     -2.93393     29956.168     -2.79864        0.     106.245        0.
               302.6086   21624175.25          0.       321.91412     9938.454      3.02190        0.     -11.725        0.00
                24.3507      1266.45     30033.005       0.10151        69.457      0.             0.       0.889        0.
 0.             0.30216989+01  0.25055404+05  0.80311141+07  0.73342293+00 -0.36429170-00  0.57391065+00  0.42825876+02
 0.10151038-00  0.                            0.97166638+04  0.30644309+07  0.28563665-00  0.93127860+00  0.22610522-00  0.73403092+02
-0.14140692-02  0.             -0.13235753+05  0.19842265+08 -0.61684196+00 -0.19007599-02  0.78707988+00  0.12808587+03
 0.35028616+03 -0.35028616+03  0.49102644+04  0.21720716+03  0.21666074+03  0.54777577+04  0.43227785+03  0.80121431+08
 0.             0.96515600+08  0.15511328+03  0.43239778+03
 0.21530639+08  0.60490075+06  0.30050423+05  0.29738507+08  0.34795196+08  0.38121807-00 -0.40455408+09 -0.20113529+05
 0.48059753+08  0.27134015+08  0.13462507+05  0.28596690+02  0.34984276+03  0.27453512-18  0.13067846+03  0.25927023+03
 0.12052120+03  0.10869532+05  0.55621504+04  0.35319165+03  0.35578100+03  0.23408395+02

               643.0000     694931.50     29578.764     -3.08648     30957.774     -2.94887        0.     106.584        0.
               303.4181   21608892.50          0.       321.01305     9243.885      3.24896        0.     -11.668        0.00
                24.1333      1312.66     30033.005       0.07570        69.457      0.             0.       0.889        0.
 0.             0.32489590+01  0.25576145+05  0.82847381+07  0.72420458+00 -0.36449628-00  0.58537257+00  0.43597281+02
 0.75698803-01  0.                            0.99590243+04  0.31627959+07  0.28230782-00  0.93119881+00  0.23057021-00  0.73692009+02
 0.18745887-02  0.             -0.14139915+05  0.19705433+08 -0.62914333+00 -0.17246570-02  0.77728237+00  0.12898694+03
 0.35028616+03 -0.35028616+03  0.48869557+04  0.23468717+03  0.23412926+03  0.54739289+04  0.43228094+03  0.80421761+08
 0.             0.96515600+08  0.15498526+03  0.43239781+03
 0.21519823+08  0.59408475+06  0.31044743+05  0.31707186+08  0.40865157+08  0.47339433-00 -0.34446310+09 -0.18559717+05
 0.60210490+08  0.39284752+08  0.11095697+05  0.28596301+02  0.35081237+03  0.27453512-18  0.13051376+03  0.25922979+03
 0.12132612+03  0.13834442+05  0.70286837+04  0.35449971+03  0.35709951+03  0.24214489+02

               653.0000     678187.50     30660.208     -3.20036     32037.998     -3.06260        0.     106.930        0.
               304.2541   21592359.00          0.       320.43730     8549.316      3.51291        0.     -11.295        0.00
                23.9033      1360.55     30033.005       0.03934        69.457      0.             0.       0.885        0.
 0.             0.35129131+01  0.26342053+05  0.85447863+07  0.71820146+00 -0.36466356-00  0.59261942+00  0.44093811+02
 0.39344767-01  0.                            0.10219371+05  0.32636710+07  0.28019243-00  0.93113348+00  0.23339667-00  0.73728310+02
 0.17013630-02  0.             -0.15102781+05  0.19559271+08 -0.63692227+00 -0.15782453-02  0.77092122+00  0.12956270+03
 0.35028616+03 -0.35028616+03  0.48665339+04  0.25281460+03  0.25224357+03  0.54700346+04  0.43228388+03  0.80722091+08
 0.             0.96515600+08  0.15484326+03  0.43239782+03
 0.21508021+08  0.58228350+06  0.32117687+05  0.33899526+08  0.50742512+08  0.57613408+00 -0.27741113+09 -0.16655663+05
 0.79977001+08  0.59051263+08  0.86373320+04  0.28595584+02  0.35161652+03  0.27453512-18  0.13054162+03  0.25919044+03
 0.12215813+03  0.19142112+05  0.96692969+04  0.35564679+03  0.35815240+03  0.25048630+02

               663.0000     660329.50     31834.623     -3.26251     33211.191     -3.12714        0.     107.284        0.
               305.1189   21574721.75          0.       320.23290     7854.747      3.82355        0.     -10.573        0.00
                23.6598      1410.28     30033.005      -0.00398        69.457      0.             0.       0.854        0.
 0.             0.38235483+01  0.27065663+05  0.88117702+07  0.71615111+00 -0.36452849-00  0.59517808+00  0.44262383+02
-0.39799865-02  0.                            0.10502285+05  0.33672582+07  0.27918222-00  0.93118696+00  0.23439497-00  0.73788597+02
-0.29663873-02  0.             -0.15126703+05  0.19403168+08 -0.63966846+00 -0.16989634-02  0.76864369+00  0.12976710+03
 0.35028616+03 -0.35028616+03  0.48444390+04  0.27049566+03  0.26991133+03  0.54652208+04  0.43228667+03  0.81022421+08
 0.             0.96515600+08  0.15468750+03  0.43239783+03
 0.21496195+08  0.57045750+06  0.33282877+05  0.36363787+08  0.69710972+08  0.69163828+00 -0.20192715+09 -0.14210107+05
 0.11792574+09  0.97000010+08  0.60669976+04  0.28594793+02  0.35234906+03  0.27453512-18  0.13067138+03  0.25915124+03
 0.12302043+03  0.30823618+05  0.15498263+05  0.35672946+03  0.35899025+03  0.25913188+02

               673.0000     641599.25     33120.159     -3.25704     34495.541     -3.12704        0.     107.645        0.
               306.0149   21556223.75          0.       320.42743     7160.178      4.19445        0.      -9.486        0.00
                23.4013      1462.00     30033.005      -0.03648        69.457      0.             0.       0.835        0.
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CASE  1                        TRAJECTORY ID  -6 NOM                          SECTION  5                           PAGE  52
 0.             0.41944495+01  0.27863536+05  0.91863460+07  0.71815948+00 -0.36454464-00  0.59274307+00  0.44097260+02
-0.36481633-01  0.             0.10813886+05  0.34738114+07  0.27999733-00  0.93117968+00  0.23344580-00  0.73739953+02
-0.25745740-03  0.            -0.17222820+05  0.19236470+08 -0.63705505+00 -0.16846990-02  0.77081101+00  0.12957256+03
 0.35028616+03 -0.35028616+03  0.48217886+04  0.28648105+03  0.28588460+03  0.54585557+04  0.43228932+03  0.81322751+08
 0.             0.96515600+08  0.15451910+03  0.43239786+03
 0.21485171+08  0.55943350+06  0.34558085+05  0.39163470+08  0.12125763+09  0.82281387+00 -0.11608782+09 -0.10774405+05
 0.22103010+09  0.20010436+09  0.33592093+04  0.28594197+02  0.35307164+03  0.27453512-18  0.13084495+03  0.25911194+03
 0.12391657+03  0.70712398+05  0.35431542+05  0.35783751+03  0.35961641+03  0.26810996+02

                683.0000    622363.00    34539.988     -3.16653     35914.269     -3.04524     0.     108.013        0.
                306.9453  21537232.75         0.      320.94260      6465.609      4.64504     0.      -8.127        0.00
                 23.1264      1515.92    30033.005     -0.03099        69.457      0.          0.       0.805        0.
 0.             0.46450388+01  0.28756801+05  0.93693575+07  0.72350315+00 -0.36445864-00  0.58626196+00  0.43655530+02
-0.30988260-01  0.             0.11162739+05  0.35836595+07  0.28197400-00  0.93121312+00  0.23091922-00  0.73621944+02
-0.19925681-02  0.            -0.18392235+05  0.19058461+08 -0.63009869+00 -0.17600051-02  0.77650755+00  0.12905740+03
 0.35028616+03 -0.35028616+03  0.47993931+04  0.29966363+03  0.29905494+03  0.54493429+04  0.43229187+03  0.81623081+08
 0.             0.96515600+08  0.15434044+03  0.43239786+03
 0.21475625+08  0.54988725+06  0.35966435+05  0.42382891+08  0.81146225+09  0.97353466+00 -0.17347088+08 -0.41649835+04
 0.16014488+10  0.15805231+10  0.48231430+03  0.28593466+02  0.35382665+03  0.71309237+01  0.13102242+03  0.25907180+03
 0.12484907+03  0.12241492+07  0.61213908+06  0.35928442+03  0.35998104+03  0.27745453+02

                683.5962    621210.25    34629.481     -3.15812     36003.700     -3.03746     0.     108.036        0.
                307.0019  21536095.00         0.      320.96107      6424.201      4.67498     0.      -8.060        0.00
                 23.1095      1519.21    30033.005     -0.02495        69.457      0.          0.       0.803        0.
 0.             0.46749789+01  0.28813606+05  0.93865182+07  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
-0.24954972-01  0.             0.11184913+05  0.35903209+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
-0.16045386-02  0.            -0.18464567+05  0.19047475+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47980765+04  0.30034772+03  0.29973832+03  0.54487103+04  0.43229199+03  0.81640985+08
 0.             0.96515600+08  0.15432954+03  0.43239787+03
 0.21475108+08  0.54937050+06  0.36055219+05  0.42590348+08  0.12814952+10  0.98324215+00 -0.10984432+08 -0.33142769+04
 0.25415152+10  0.25205895+10  0.30465674+03  0.28593425+02  0.35387328+03  0.10796322+02  0.13103267+03  0.25906943+03
 0.12490592+03  0.24294467+07  0.12147871+07  0.35943627+03  0.35999054+03  0.27802405+02

                683.5962    621210.25    34629.481     -3.15812     36003.700     -3.03746     0.     108.036        0.
                307.0019  21536095.00         0.      320.96107      6424.201      4.67498     0.      -8.060        0.00
                 23.1095      1519.21    30033.005     -0.02495        69.457      0.          0.       0.803        0.
 0.             0.46749789+01  0.28813606+05  0.93865182+07  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
-0.24954972-01  0.             0.11184913+05  0.35903209+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
-0.16045386-02  0.            -0.18464567+05  0.19047475+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47980765+04  0.30034772+03  0.29973832+03  0.54487103+04  0.43229199+03  0.81640985+08
 0.             0.96515600+08  0.15432954+03  0.43239787+03
 0.21475108+08  0.54937050+06  0.36055219+05  0.42590348+08  0.12814952+10  0.98324215+00 -0.10984432+08 -0.33142769+04
 0.25415152+10  0.25205895+10  0.30465674+03  0.28593425+02  0.35387328+03  0.10796322+02  0.13103267+03  0.25906943+03
 0.12490592+03  0.24294467+07  0.12147871+07  0.35943627+03  0.35999054+03  0.27802405+02
BEGIN DECAY

                683.6712    621065.25    34638.859     -3.15659     36013.070     -3.03602     0.     108.039        0.
                307.0090  21535952.00         0.      320.96107      6409.934      3.06996     0.      -8.055        0.00
                 23.1073      1519.62    19678.218      0.            311.004      0.          0.       0.802        0.
 0.             0.30699562+01  0.28819377+05  0.93886793+07  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.             0.11167166+05  0.35911598+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.            -0.18472467+05  0.19046090+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47979110+04  0.30041853+03  0.29980905+03  0.54486156+04  0.43201742+03  0.81642849+08
 0.             0.96515600+08  0.15432817+03  0.63273299+02
 0.21475055+08  0.54931699+06  0.36064501+05  0.42612067+08  0.13642262+10  0.98425844+00 -0.10318304+08 -0.32122117+04
 0.27069774+10  0.26860516+10  0.28610772+03  0.28593422+02  0.35387936+03  0.11107547+02  0.13103374+03  0.25906912+03
 0.12491308+03  0.26684650+07  0.13342962+07  0.35945432+03  0.35999140+03  0.27809580+02


CASE  1                        TRAJECTORY ID  -6 NOM                          SECTION  5                           PAGE  53
                683.7462    620920.00    34642.653     -3.15375     36016.857     -3.03331     0.     108.041        0.
                307.0162  21535808.50         0.      320.96107      6398.272      0.          0.      -8.050        0.00
                 23.1052      1520.03         0.        0.              0.          0.          0.       0.802        0.
 0.             0.             0.28821065+05  0.93908406+07  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.             0.11187828+05  0.35919988+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.            -0.18476815+05  0.19044704+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47977456+04  0.30044656+03  0.29983705+03  0.54484782+04  0.43204204+03  0.81643586+08
 0.             0.96515600+08  0.15432679+03  0.
 0.21475032+08  0.54929449+06  0.36068182+05  0.42620678+08  0.14000613+10  0.98466136+00 -0.10054192+08 -0.31708346+04
 0.27786475+10  0.27577218+10  0.27875624+03  0.28593421+02  0.35388609+03  0.11228402+02  0.13103417+03  0.25906882+03
 0.12492026+03  0.27742942+07  0.13872106+07  0.35946199+03  0.35999173+03  0.27816755+02

                693.0000    604319.00    34657.178     -2.69689     36030.758     -2.59401     0.     108.415        0.
                307.8954  21519442.50         0.      320.96107      6398.272      0.          0.      -7.621        0.00
                 22.8386      1571.22         0.        0.              0.          0.          0.       0.815        0.
 0.             0.             0.28696790+05  0.96569731+07  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.             0.11139966+05  0.36953087+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.            -0.18724607+05  0.18872573+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47783750+04  0.30044656+03  0.29983705+03  0.54291076+04  0.43204204+03  0.81643586+08
 0.             0.96515600+08  0.15416725+03  0.
 0.21475022+08  0.54928424+06  0.36068287+05  0.42620888+08  0.14010740+10  0.98467246+00 -0.10046912+08 -0.31696863+04
 0.27806729+10  0.27597472+10  0.27855389+03  0.28593694+02  0.35477160+03  0.11231703+02  0.13103557+03  0.25902934+03
 0.12580714+03  0.27773047+07  0.13887066+07  0.35954020+03  0.35999294+03  0.28702927+02

                703.0000    589243.50    34670.384     -2.20255     36043.375     -2.11861     0.     108.813        0.00
                308.8429  21504625.00         0.      320.96107      6398.272      0.          0.      -7.156        0.00
                 22.5442      1626.62         0.        0.              0.         14.24543     0.       0.828        0.04
 0.             0.             0.28558289+05  0.99432516+07  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.             0.11086617+05  0.38064429+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.            -0.18990419+05  0.18683995+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47597590+04  0.30044656+03  0.29983705+03  0.54104917+04  0.43204204+03  0.81643586+08
 0.24692357+02  0.96515774+08  0.15401813+03  0.
 0.21475008+08  0.54927050+06  0.36068410+05  0.42621122+08  0.14021882+10  0.98468465+00 -0.10038944+08 -0.31684292+04
 0.27829013+10  0.27619756+10  0.27833161+03  0.28593996+02  0.35572982+03  0.11235334+02  0.13103709+03  0.25898671+03
 0.12676691+03  0.27806183+07  0.13903535+07  0.35962471+03  0.35999424+03  0.29661951+02

                713.0000    577151.50    34680.987     -1.70764     36053.481     -1.64262     0.     109.205        0.00
                309.7874  21492793.50         0.      320.96107      6398.272      0.          0.      -6.691        0.00
                 22.2433      1682.08         0.        0.              0.         14.29615     0.       0.841        0.05
 0.             0.             0.28415476+05  0.10228123+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.             0.11031559+05  0.39170352+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.            -0.19254039+05  0.18492769+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47435656+04  0.30044656+03  0.29983705+03  0.53942983+04  0.43204204+03  0.81643586+08
 0.27171305+02  0.96516029+08  0.15389547+03  0.
 0.21474995+08  0.54925674+06  0.36066533+05  0.42621357+08  0.14032939+10  0.98469672+00 -0.10031040+08 -0.31671817+04
 0.27851128+10  0.27641870+10  0.27811138+03  0.28594299+02  0.35668923+03  0.11238922+02  0.13103863+03  0.25894410+03
 0.12772786+03  0.27839080+07  0.13919883+07  0.35970919+03  0.35999554+03  0.30622169+02

                723.0000    568049.25    34688.976     -1.21231     36061.062     -1.16617     0.     109.590        0.00
                310.7285  21483954.00         0.      320.96107      6398.272      0.          0.      -6.225        0.00
                 21.9363      1737.61         0.        0.              0.         14.37874     0.       0.855        0.05
 0.             0.             0.28268418+05  0.10511545+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.             0.10974937+05  0.40270691+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.            -0.19515313+05  0.18298919+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47298084+04  0.30044656+03  0.29983705+03  0.53805411+04  0.43204204+03  0.81643586+08
 0.29399815+02  0.96516307+08  0.15380126+03  0.
```

```
CASE  1                                        TRAJECTORY ID  -6 NOM                                  SECTION  5                                   PAGE  54
 0.21474588+08  0.54924999+06  0.36068644+05  0.42621593+08  0.14043744+10  0.98470850+00 -0.10023328+08 -0.31659640+04
 0.27872739+10  0.27663481+10  0.27789651+03  0.28594604+02  0.35764962+03  0.11242431+02  0.13104018+03  0.25890151+03
 0.12868571+03  0.27871241+07  0.13935864+07  0.35979366+03  0.35999684+03  0.31583307+02

               733.0000      561943.25      34694.340     -0.71667      36066.110      -0.68941      0.     109.970       0.00
               311.6661   21478113.00          0.        320.96107       6398.272       0.           0.      -5.759       0.00
                21.6231       1793.17          0.            0.             0.        14.45453      0.       0.868       0.05
 0.             0.           0.28117187+05  0.10793476+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10916660+05  0.41365282+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.19774088+05  0.18102469+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47184584+04  0.30044656+03  0.29983705+03  0.53692310+04  0.43204204+03  0.81643586+08
 0.31093300+02  0.96516605+08  0.15373714+03  0.
 0.21474578+08  0.54924025+06  0.36068762+05  0.42621832+08  0.14054612+10  0.98472033+00 -0.10015584+08 -0.31647407+04
 0.27894475+10  0.27685216+10  0.27768075+03  0.28594913+02  0.35861052+03  0.11245949+02  0.13104174+03  0.25885893+03
 0.12965221+03  0.27903600+07  0.13951944+07  0.35987807+03  0.35999813+03  0.32545109+02

               743.0000      558836.50      34697.074     -0.22086      36068.619      -0.21246      0.     110.343       0.00
               312.5997   21475273.50          0.        320.96107       6398.272       0.           0.      -5.292       0.00
                21.3042       1848.76          0.            0.             0.        14.49408      0.       0.881       0.05
 0.             0.           0.27961861+05  0.11073874+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10856798+05  0.42453966+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.20030214+05  0.17903444+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47096435+04  0.30044656+03  0.29983705+03  0.53603762+04  0.43204204+03  0.81643586+08
 0.32001109+02  0.96516915+08  0.15370423+03  0.
 0.21474574+08  0.54923575+06  0.36066872+05  0.42622076+08  0.14065343+10  0.98473199+00 -0.10007919+08 -0.31635296+04
 0.27915936+10  0.27706678+10  0.27746806+03  0.28595223+02  0.35957181+03  0.11249417+02  0.13104330+03  0.25881639+03
 0.13061508+03  0.27935562+07  0.13967825+07  0.35996243+03  0.35999942+03  0.33507302+02

               753.0000      558731.00      34697.174      0.27500      36068.584       0.26454      0.     110.710       0.00
               313.5292   21475436.25          0.        320.96107       6398.272       0.           0.      -4.826       0.00
                20.9796       1904.35          0.            0.             0.        14.49544      0.       0.894       0.05
 0.             0.           0.27802524+05  0.11352699+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10795382+05  0.43536585+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.20263545+05  0.17701872+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47032487+04  0.30044656+03  0.29983705+03  0.53539813+04  0.43204204+03  0.81643586+08
 0.32032523+02  0.96517235+08  0.15370315+03  0.
 0.21474576+08  0.54923850+06  0.36068971+05  0.42622319+08  0.14075834+10  0.98474337+00 -0.10000448+08 -0.31623484+04
 0.27936917+10  0.27727659+10  0.27726047+03  0.28595535+02  0.53265774+00  0.11252800+02  0.13104487+03  0.25877386+03
 0.13157805+03  0.27966821+07  0.13983355+07  0.46702272-01  0.71217936-03  0.34469617+02

               756.5741      559421.00      34696.571      0.45221      36067.956       0.43502      0.     110.839       0.00
               313.8604   21476222.75          0.        320.96107       6398.272       0.           0.      -4.659       0.00
                20.8622       1924.22          0.            0.             0.        14.48659      0.       0.899       0.05
 0.             0.           0.27744620+05  0.11451963+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10773062+05  0.43922019+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.20373382+05  0.17629216+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47015605+04  0.30044656+03  0.29983705+03  0.53522932+04  0.43204204+03  0.81643586+08
 0.31827874+02  0.96517347+08  0.15371049+03  0.
 0.21474575+08  0.54923750+06  0.36069010+05  0.42622407+08  0.14079642+10  0.98474750+00 -0.99977760+07 -0.31619260+04
 0.27944534+10  0.27735277+10  0.27716518+03  0.28595647+02  0.87673121+00  0.11254033+02  0.13104543+03  0.25875866+03
 0.13192220+03  0.27978172+07  0.13988595+07  0.76859263-01  0.11722178-02  0.34813535+02

               756.7341      559460.75      34697.287      0.46004      36068.671       0.44255      0.     110.845       0.00
               313.8752   21476266.75          0.        320.96107       6398.272       0.29291      0.      -4.652       0.00
                20.8570       1925.11       1874.097         0.             0.        14.48640      0.       0.899       0.05
 0.             0.29290669-00  0.27742551+05  0.11456402+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10772271+05  0.43939254+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.20377669+05  0.17625956+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03


CASE  1                                        TRAJECTORY ID  -6 NOM                                  SECTION  5                                   PAGE  55
 0.35028616+03 -0.35028616+03  0.47014923+04  0.30044789+03  0.29983838+03  0.53522263+04  0.43204702+03  0.81643735+08
 0.31818201+02  0.96517352+08  0.15371092+03  0.
 0.21474577+08  0.54923899+06  0.36069760+05  0.42624186+08  0.14156512+10  0.98483032+00 -0.99434880+07 -0.31533296+04
 0.28098275+10  0.27889018+10  0.27567431+03  0.28595651+02  0.89180648+00  0.11278643+02  0.13104569+03  0.25875798+03
 0.13193760+03  0.28207613+07  0.14103714+07  0.77967035-01  0.11826766-02  0.34828931+02
END DECAY
BEGIN DELAY

               756.7341      559460.50      34697.287      0.46004      36068.671       0.44255      0.     110.845       0.00
               313.8752   21476266.50          0.        320.96107       6398.272       0.           0.      -4.652       0.00
                20.8570       1925.11          0.            0.             0.        14.48640      0.       0.899       0.05
 0.             0.           0.27742561+05  0.11456402+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10772271+05  0.43939254+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.20377869+05  0.17625955+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47014923+04  0.30044656+03  0.29983705+03  0.53522249+04  0.43204204+03  0.81643586+08
 0.31818274+02  0.96517352+08  0.15371092+03  0.
 0.21474576+08  0.54923800+06  0.36069761+05  0.42624185+08  0.14156484+10  0.98483029+00 -0.99435040+07 -0.31533322+04
 0.28098218+10  0.27888960+10  0.27567486+03  0.28595651+02  0.89191619+00  0.11278637+02  0.13104568+03  0.25875798+03
 0.13193760+03  0.28207528+07  0.14103671+07  0.77976426-01  0.11828241-02  0.34828931+02
END DELAY

               756.7341      559460.50      34697.287      0.46004      36068.671       0.44255      0.     110.845       0.00
               313.8752   21476266.50          0.        320.96107       4314.272       0.           0.      -4.652       0.00
                20.8570       1925.11          0.            0.             0.        14.48640      0.       0.899       0.05
 0.             0.           0.27742561+05  0.11456402+08  0.72369970+00 -0.36444364-00  0.58602864+00  0.43639215+02
 0.             0.           0.10772271+05  0.43939254+07  0.28202913-00  0.93121896+00  0.23082829-00  0.73618652+02
 0.             0.          -0.20377869+05  0.17625955+08 -0.62984825+00 -0.17730668-02  0.77671067+00  0.12903892+03
 0.35028616+03 -0.35028616+03  0.47014923+04  0.30044656+03  0.29983705+03  0.53522249+04  0.43204204+03  0.81643586+08
 0.31818274+02  0.96517352+08  0.15371092+03  0.
 0.21474576+08  0.54923800+06  0.36069761+05  0.42624185+08  0.14156484+10  0.98483029+00 -0.99435040+07 -0.31533322+04
 0.28098218+10  0.27888960+10  0.27567486+03  0.28595651+02  0.89191619+00  0.11278637+02  0.13104568+03  0.25875798+03
 0.13193760+03  0.28207528+07  0.14103671+07  0.77976426-01  0.11828241-02  0.34828931+02
```

APPENDIX B

REASSEMBLY TRAJECTORY LISTING

The first four pages of the IBM trajectory listing present the various input quantities that define the trajectory, computation sequence, weights, propulsion data, etc. The trajectory listing is divided into sections that correspond to contiguous flight phases:

SECTION	TRAJECTORY EVENT	STAGE
	Liftoff (2-Inch Motion, t = 0 sec)	Atlas
1		Atlas
	Booster Jettison	Atlas
2		Atlas
	Sustainer Jettison	Atlas
3		Centaur
	Main engine ignition and thrust buildup	Centaur
4		Centaur
	Continue Centaur main engine burn	Centaur
5		Centaur
	Admit Centaur Guidance perigee altitude control	Centaur
6		Centaur
	Main engine cutoff and spacecraft separate	Centaur
7		Centaur
	End Centaur tank retromaneuver	Centaur

A description of the trajectory parameters is presented in Appendix C.

```
APRIL 1965 ASSEMBLY-A    CPY 1
   CCC = 0 . 0 . 30H COMBO INITIAL CONDITIONS DATA *
   BATA = 25..
   LATE = 28.307492.
   LONG = 80.541179.
   RO   = .34410000+4. .          + . .30168000+6. .          + . .          + .
    WEIGH = 303510..
   CUL  = .10000000+1. .10000000+1. 14076539.+9. .32174000+2. .20925738+8.
   R1   = .20855508+8. .32469000-2. .90000000-5. .41780742-2. .10000000+1.
   V(3) = .          + . .          + . .          + . .10000000+1. .          + .
   PS(5)= .10000000+1. .          + .-.10000000+1. .          + . .          + .
   OTOL = .10000000-3. .60000000+6. .14747657+2. .10080000+3. .12500000+3.
   RSPFL= .          + . .          + . .10000000+1. .          + . .          + .
   C3   =-.57500000-5. .          - . .          - . .          - . .          - .
   GTPAD = 0.160547.
   PRGT = 0.160547.
   PSUBO = 14.768405.
   STORE = 1..
    TIME = 0..
    COORD = 0..
    MRTIM = -8.9254.
   MS =
    0.51849817-3. 0.24189771-3. 0.99999975.
    -0.31031536-3. 0.99999984.   -0.24170379-3.
    -0.99999974.   -0.31016821-3. 0.51858860-3.
   CPFTFL = +1..
   TC(71) = 0.38613834.
   CKTURN = 2..
   SOKTIM = 1.281.
   PLIMO = 145.. 230.. 800.. 10000..
   PINTO = 2.. 5.. 10.. 100..
  *
   CCC = 1 . 1 . 30H COMBO SECTION      1        DATA *
   FCODE= 02..04..05..87..28..62..12..14..15..16..17..18..71..
   FCODE= 02..04..05..87..28..62..12..14..15..16..17..18..71..    80..
   CTIME= .50000000+0. .          + . .12000000+2. .                    ..40000000+1.
   DTIME = 1..
    STGF = 1..
   STG1 = 141.83614.
   BR11 = .          + . .          + . .73980000+4. .80800000+0. .78500000+2.
    JETW = 7325..
   OPT1 = 2.. 9.. 12..
   OPT6 = .          + . .78500000+2. .10000000+1. .10000000+1. .10000000+1.
   FCNCP= .10000000+1. .10000000+1. .          + . .          + . .          + .
   POWR = .10000000+1. .86603000+0. .          + . .30000000+1. .31000000+1.
  CANT  =  .7547.
   DKML = 3.056.
  DKBP=     0.11     .0.25     .0.35     .0.70     .1.70     .
  DKTH=     0.70     .0.15     .0.092    .0.043    .0.00     .
  DKWD=     0.912    .0.800    .0.0267   .0.00     .0.00     .
   PRNT = -0. .
   WNDF = 1.688.
   TLTX = 1.0138306.
   ROLX = 0.58650847.
   ADJT = 1.. 0.. 0.61909731. 0.58577279.
   PRNT = -2..
   PRNT = +0..
  *
   CCC = 1 . 2 . 30H COMBO SECTION      2        DATA *
   FCODE= 02..04..87..28..62..12..14..15..16..17..18..71..
   CTIME = 1..
    STGF = 1..
   STG1 = 233..
   BR11 = .          + . .          + . .          + . .80800000+0. .78500000+2.
    JETW =-36360..
   OPT1 = 2.. 9.. 12..
   OPT6 = .          + . .78500000+2. .40000000+1. .40000000+1. .20000000+1.
   FCNCP= .40000000+1. .20000000+1. .          + . .          + . .          + .
   POWR = .20000000+1. .64279000+0. .          + . .20000000+1. .15000000+1.
  CANT  =  .7547.
   DKML = 3.289.
   DKBP = 0.85. 1.281. 1.45. 1.775. 3.289.
   DKTH = 0.54. 0.736. 0.275. 0.0384. 0.0.
   DKWD = 0.582. 0.754. 0.488. 0.240. 0.0.
   PRNT = -0. .
   GUID=1.0.
   TURN=0.0.
   FORCE = 4.9.
    GUID = 2..
   FORCE = 4.513.
   TLTX = 1..
   PRNT = -2..
   PRNT = +0..
  *
   CCC = 1 . 3 . 30H COMBO SECTION      3        DATA *
   FCODE = 2.. 4.. 09.. 37.. 22.. 15.. 16.. 18..      71..
   RTAD = 8.72.  WDOT = 4.48.
   CTIME= .50000000+0. .          + . .          + . .          + . .90000000+1.
   CTIME = 1..
   STG1=6.481.
   OPT1 = 2.. 9.. 12..
   ADJT = 1.. 0.. -2.1220956. -1.4144974.
   PRNT = +0..
  *
   CCC = 1.4.*
   FCODE = 2.. 4.. 09.. 75.. 15.. 16.. 18..   71..
   CTIME = 1..
    GLID = 2.0.
   FORCE = 4..
   TURN=0.0.
   OPT1 = 2.. 9.. 12..
   FCNTW = 4..
   PRNT = +0..
   DTG = -1..
   DT1 = .1. 1..
   OPT1 = 2.. 1000..
    KTB = 0.58161995.
   KWDTB = 0.58694982.
   STGF = 1.. 233.17.
   RTAD = 8.72.
   WDAD = 0.103.
  *
   CCC = 1 . 5 . 30H COMBO SECTION      5        DATA *
   FCODE = 2.. 4.. 09.. 75.. 15.. 16.. 18..   71..
   DTIME = 1..
    GUID = 2.0.
   TURN=0.0.
   OPT1 = 2.. 9.. 12..
   FCNTW = 2..
   PRNT = +0..
    KTB = 0.58161995.
   KWDTB = 0.58694982.
   STGF = 1..
   STG1 = 455.17.
   RTAD = 8.72.
   WDAD = 0.103.
   ADJT = 1.. 0.. -0.66557827-1.
  *
   CCC = 1 . 6 . 30H COMBO SECTION      6        DATA *
   FCODE = 2.. 4.. 09.. 75.. 15.. 16.. 18..   71..
   CTIME = 1..
    GUID = 2.0.
   TURN=0.0.
   FCNTW = 1..
   OPT1 = 2.. 9.. 12..  13..
    KTB = 0.58161995.
   KWDTB = 0.58694982.
    STGF = 1.. 679.08.
   WDAD = 0.103.
   RTAD = 8.72.
   DKEN = 3..
   DKML = 68.72.
   DKBP = 0.09. 0.1. 68.62. 68.72.
   DKTH = 1.46613.-.290524-3. -.29524-3. 0.101.
   DKWD = 7.235. -.0014679. -.0014679. 0.0014679.
   JETW = 2084..
   PRNT = +0..
  *
   CCC = 1 . 7 . 30H COMBO SECTION      7        DATA *
   FCODE = 2.. 4.. 09.. 75.. 15.. 16.. 18..   71..
   CNT1 = 5.. 97.2. 1000..
     OML1 = 0.0. 1.9522777. 0..
   TURN = 12..
   FCNSI = 2..
   CTIME = 1..
   OPT1 = 2.. 9.. 12..  13..
   FCNTW = 3..
   FCNTW = 3..
   KTB = 1..
   KWDTB = 1..
   STGF = 1.. 1853.8.
    PRNT = 0..
  *
   CCC = 2.38.*
   TIME4 =
         0.0.0.1.0.2.0.3.0.4.0.5.0.6.0.7.0.8.0.9.1.0.1.1.1.2.
     1.3.                 1.4.1.5.1.6.1.7.1.8.1.9.
     2.4. 8.4. 30.4. 80.4. 90.4.
   THST4 =
     8.8. 706.. 1867.. 2321..2321.. 2321.. 2422.. 2623.. 2977..
     3532.. 5751.. 8324.. 16850.. 33902.. 31198.. 28151.. 28757..
     29866.. 30169.. 30119.. 30320.. 30430.. 30220.. 30170.. 30280..
   WDOT4 =
     4.48. 8.27. 9.48. 9.08. 8.68. 10.09.  12.11. 12.71. 15.14. 28.66.
     56.71. 65.38. 64.58. 74.26. 75.68. 71.03. 73.05. 72.65. 71.84.
     70.63. 70.13. 70.13. 69.64. 69.60. 69.84.
   TIME2 =
     0.0. 5.. 41.. 54.. 56.. 65.. 70.. 79.. 83.. 89.. 92.. 103..
     105.. 115.. 120.. 130.. 138.. 145.. 150.. 156.. 158.. 166..
   THST2 =

     30280.. 30830.. 30900..
     30000.. 30240.. 29800.. 30270.. 29920.. 30320.. 29980.. 29890..
     29890.. 30180.. 29770.. 30180.. 29560.. 30090.. 29910.. 30140..
     29910.. 30140.. 29860..
   WDOT2 =
     69.85. 71.70. 71.90.
     69.00. 69.78. 69.55. 69.90. 68.80. 70.08. 68.95. 68.66. 68.71.
     69.60. 68.35. 69.65. 67.77. 69.30. 68.79. 69.51. 68.87. 69.60.
     68.66.
  TIME1 =
     0.. 14.. 21.. 23.. 27.. 29.. 45.. 49.. 58.. 63.. 67.. 82.. 85..
     91.. 93.. 99.. 108.. 113.. 119.. 129.. 140.. 151.. 163.. 168..
     173.. 184..
    1000..
   THST1 = 29850..
     29850.. 29650.. 29800.. 29740.. 29910.. 29750.. 30240.. 29660..
     30200.. 29970.. 29900.. 30050.. 29760.. 29920.. 29580.. 30020..
     29780.. 29730.. 29460.. 30000.. 29660.. 29960.. 29800.. 30500..
     30610..
    30610..
   WDOT1 = 68.66.
     68.65. 68.06. 68.44. 68.30. 68.80. 68.37. 69.90. 68.05. 69.70.
     69.02. 68.75. 69.25. 68.35. 68.82. 67.85. 69.16. 68.45. 68.30.
  67.50. 69.10. 69.10. 68.99. 68.48. 70.80. 71.10.
   71.1.
   TIME3 =
     0.0. 0.1. 0.1001. 125.. 125.0001. 212.2. 212.2001. 252.2.
     252.2001. 552.2. 802.2. 1052.2. 1108.8.
   THST3 =
     -1370..  -1370.. 0.0. 0.0. 51.6. 51.6. 42.0. 42.0. 22.5. 16.6.
     11.0. 7.0. 7.0.
   WDOT3 =
     0.. 0.. 0.. 0.. 2.76. 2.76. 1.71. 1.71. 0.54.      0.40. 0.27.
     0.15. 0.15.
  *
   CCC = 3 . 1 . 30H DEPRC INITIAL CONDITIONS DATA *
   PU   =  .20000000+1. .10000000+1. .          + . .          + . .          + .
  PL=4..
               .PLCS2=3.13   .RTR=2.28     .VAMIN=-5.75  .VAMAX=17.05  .
  VAMAX =  14.10.
  VAMIN = -5.40.
  WOMIN=1835.0 .WFMIN=883.0  .CWC=2340.0   .DWF=943.0    .            .
   PGCAD= 25.5.
   PGTYM= 20.0.
  PGFAD =  55.5.
  WDSOL =  8.125.
   TVSOL = .1-10.
   WTOO= .17250900+6. .75193000+5. .16600000+3. .53000000+2.
    WDAMP = 54647..
    WTOC = 172286..
    WTFO = 76103..
    WTSHF = 169..
    WTBHE = 86..
    LOXCO = -0.08.
  *
   CCC = 3 . 2 . 30H DEPRO SECTION ONE          DATA *
  OUTPF=1.0     .             .CSTAF=1.0    .             .             .
  FDEN=50.     .PLFR=12.4    .PLCB=18.6    .PLFS=11.8    .PLOS=15.1    .
    FDEN = 50.38.
  GASPF=4..
```

```
TRC = 1.0029441.
WFRC = 1.0203745.
WORC = 1.0199362.
TSC = 1.0254201.
WFSC = 1.0047902.
WOSC = 1.0047902.
.
CCC=3.3. 3CH DEPRO SUSTAINER SECTION DATA   .
OUTPF=1.0       .              .CSTAF=1.0      .          .                .
FDEN=50.0       .              .                   .PLFS=11.8     .PLOS=3.19     .
  FDEN = 5C.38.
FULTN = 142.0.  DXLIP = 0.0.    WFTOL = 5.0.  WOTOL = 5.0.
EASPF=4..
 TSC = 1.0254201.
 WFSC = 1.0047502.
 WOSC = 1.0047502.
.
 CCC = 2.374
RDRFT1(4) = 144.89214.
RDRFT1(2) = -0.54620138-2.
RDRFT1(3) = -0.15233128-2.
RDRFT2(4) = 236.289.
RDRFT2(2) = -0.5647C814-2.
RDRFT2(3) = 0.11898005-2.
RDRFT3 = C. C. C. 242.77.
RDRFT4(4) = 675.08.
RDRFT4(2) = 0.43984351 -3.
RDRFT4(3) = -.24899922-3.
.
 CCC =2.30.57H PITCH PROGRAM USED WITH TURN PROGRAM 12 (165K.AZI=108)  .
 TRCLT= .2000000CC+1. .15000000+2. .40000000+4. .          + . .          + .
 TROLR= .CC000000+0.-.3750CCC0+C. .0C000000+0. .           + . .          + .

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 TPITT= .150C0CCC+2. .32C0C0C0+2. .400000000+2. .72000000+2. .84000000+2.
        .1C000000+3. .1120C0C0+3. .1320000C+3. .2000000+3.
 TPITR= .CCCCCCC+0. .48CCCCC3+C. .660CC300+0. .75000000+0. .66000000+0.
        .5400CC0+0. .230CCCCC+C. .270CCCC0+0. .21000000+0.
 TPITT2 = 5.. 97.2. 1000..
 TPITR2 = C.. 1.2755965. 0..
.
 CCC=2. 5.58H YZ CG OFF-SETS (CM61-3.1-71) =TLU(TIME-TLNCH) FOR FC 62  .
 TLU = 2 .
 YWT1 = .000. 15.. 30.. 45.. 60.. 75.. 90.. 105.. 120.. 135..
        150.. 152.. 155.. 175..
 YCG1 = 0.50. 0.51. C.55. C.60. C.67. 0.76. 0.88. 1.03. 1.22. 1.48.
        1.28. 1.55. 2.0C. 2.C0.
 YWT2 = 10C.. 120.. 150.. 175.. 200.. 225.. 250.. 275.. 300.. 325..
 YCG2 = C.78. 0.85. C.94. 1.C4. 1.16. 1.34. 1.56. 1.90. 2.00. 2.00.
 YWT3 = 20C.. 225.. 250.. 275.. 300.. 325.. 350..
 YCG3 = 1.C0. 1.00. 1.CC. 1.C0. 1.0C. 1.00. 1.00.
 ZWT1 = .0CC. 15.. 30.. 45.. 60.. 75.. 90.. 105.. 120.. 135..
        15C.. 152.. 155.. 175..
 ZCG1 = 0.39. 0.41. 0.45. 0.49. 0.54. C.59. 0.67. 0.76. 0.91. 1.15.
        1.48. 1.51. 1.56. 1.60.
 ZWT2 = 10C.. 12C.. 150.. 175.. 200.. 225.. 250.. 275.. 300.. 325..
 ZCG2 = 1.14. 1.25. 1.4C. 1.59. 1.81. 2.10. 2.40. 2.40. 2.40. 2.40.
 ZWT3 = 20C.. 225.. 250.. 275.. 300.. 325.. 350..

 ZCG3 = 1.65. 1.84. 1.99. 2.14. 2.29. 2.44. 2.59.
.
 CCC=2.10.58H  X CG OFF-SETS (CM61-3.1-71) =TLU(TIME-TLNCH) FOR FC 28  .
 TLU = 2 .
 XCGW1= .000. 15.. 30.. 45.. 60.. 75.. 90.. 105.. 120.. 135..
        15C.. 152.. 155.. 175..
 XCGT1= .532. .538. .543. .549. .553. .554. .553. .549. .543. .525.
        .453. .453. .453. .453.
 XCGW2= 10C.. 120.. 15C.. 175.. 200.. 225.. 250.. 275.. 300.. 325..
 XCGT2= .480. .468. .458. .44C. .417. .384. .336. .260. .240. .240.
 XCGW3= 2CC.. 275.. 250.. 275.. 300.. 325.. 350..
 XCGT3= .321. .327. .333. .340. .347. .353. .359.
.
CCC=3.4. 57H  165K BOOST 57K SUST 1000 VERN                              .
TAFX=      275804.0 .393.74    .897.00    .
           57000.0  .84.04     .190.78    .
           2000.0   .0.0       .0.0       .
INFCO=     -0.0725  . 0.5270   .-0.0017   . 0.0349   . 0.0     . . . . . .
           -0.5617  .-0.5002   . 0.0558   .-0.0295   . 0.0     . . . . . .
           -0.6757  . 1.1387   .-0.0354   . 0.0802   . 0.0     . . . . . .
           0.5230   . 0.0529   . 0.0617   . 0.0000   .-0.4205  . . . . . .
           0.6463   .-0.1533   . 0.0232   . 0.0000   . 0.0046  . . . . . .
           0.2726   . 0.1010   . 0.0479   . 0.0000   . 0.0178  . . . . . .
           0.1381   . 0.3352   . 0.0255   . 0.0000   .-0.1540  . . . . . .
           0.0      . 0.0      . 0.0      . 0.0      . 0.0     . . . . . .
           0.0      . 0.0      . 0.0      . 0.0      . 0.0     . . . . . .
NUMX=      50.45    .71.38     .73.0      .59.C      .14.696   . . . . . .
           5C.45    .71.38     .77.0      .53.0      .14.696   . . . . . .
BXTEN=     14.
BXMR=      1.58     .2.CC      .2.C5      .2.10      .2.15     .
           2.20     .2.28      .2.30      .2.35      .2.40     .
           2.45     .2.50      .2.55      .2.58      .
BXCT=      -1573.0  .-1370.0   .-866.C    .-515.0    .-276.0   .
           -117.C   .0.0       .-12.0     .-42.0     .-105.0   .
           -187.0   .-293.0    .-416.C    .-499.0    .
BXDMF =    C.9490   .C.8C60    .0.5230    .0.3120    .0.1670   .
           C.C708   .C.0       .0.CC71    .0.0255    .0.0636   .
           C.1132   .0.1770    .C.2520    .0.3020    .
BXDMO=     2.2350   .1.9CCC    .1.2320    .0.7330    .0.3930   .
           C.1670   .0.0       .C.0167    .0.C599    .0.1500   .
           C.2660   .0.4160    .C.5930    .0.7100    .
SXTEN=     16.
SXMR=      1.90     .1.95      .2.C0      .2.05      .2.10     .
           2.15     .2.20      .2.27      .2.30      .2.35     .
           2.40     .2.45      .2.50      .2.55      .2.60     .
           2.65     .
SXDT=      -327.1   .-241.2    .-171.8    .-117.6    .-77.7    .
           -43.0    .-16.5     . 11.6     . 18.2     . 13.2    .
           0.0      .-24.8     .-49.6     .-85.9     .-128.9   .
           -175.1   .
SXDMF=     0.1434   . 0.1C57   . 0.0753   . 0.0516   . 0.0340  .
           C.0188   . 0.0072   .-0.C051   .-0.0080   .-0.0058  .
           C.C009   . 0.C108   . 0.0217   . 0.0376   . 0.0565  .
           0.C767   .
SXDMO=     1.377    . 1.015    . 0.723    . 0.495    . 0.327   .
           0.181    . 0.C69    .-0.049    .-0.076    .-0.056   .
           0.C00    . 0.104    . 0.209    . 0.362    . 0.542   .
           C.737    .
CDFPA(10)=15.0      .
KDFPA=     -3117.0  .0.208     .0.517     .
```

```
DPGT=          0..       15..      20..      25..      37.5.     40..
               65..      85..      95..      110..     115..     140..
               146..     190..     165..     170..     180..     205..
               225..     238.5.
DPGF=          73.5.     73.2.     72.5.     71.8.     70.0.  .  69.3.
               62.9.     60.15.    59.7.     59.0.     59.0.     59.0.
               59.0.     59.0.     56.25.    55.4.     54.7.     51.1.
               49.7.     48.8.
DPGO=          40.3.     40.9.     41.1.     43.95.    41.1.     40.65.
               34.6.     33.45.    33.45.    33.05.    32.94.    31.03.
               32.3.     32.35.    32.5.     32.5.     32.5.     32.45.
               32.4.     32.05.
 DECST = .55.
DECST(23)=.002629.
DECST(76)=150..
  DECST(4) = 0.61.
  DECST(5) = 0.70.
.
CCC=3.5.54H CENTAUR FLIGHT TANK TABLE WITH PROGRAM PRESSURES          .
 DTLUT=  0.0   .  5.0 .     15.0.     30.0.     35.0.
       40.0.     45.0.     50.C.      55.0.     60.0.     65.0.
       70.C.     75.0.     80.0.     85.0.     90.0.
       95.0.     100.0.    105.C.     110.0.    115.0.    120.0.
       124.0.    150.0.    320.0.
 DTLUD= 69.320.  69.315.   69.295.   69.235.   69.210.   69.185.
       69.155.   69.130.   69.095.   69.060.   69.020.   68.980.
       68.935.   68.890.   68.840.   68.785.   68.730.   68.670.
       68.600.   68.535.   68.460.   68.385.   68.300.
       68.200.   68.745.
CXLCO=   0.0       .
VPFOX=   526.15    .-7.222222.0.0     .0.0      .
         C.0       .0.0      .0.0     .0.0      .
VOLOS=
         .00.       .02.       .16.       .28.       .44.
         .52.       .63.       .77.       .86.       .99.
         1.56.      13.10.     13.59.     14.31.     15.96.
         16.65.     17.52.     18.46.     19.52.     20.70.
         22.0C.     25.03.     26.77.     28.66.     30.71.
         32.93.     35.32.     37.90.     43.64.     50.20.
         57.62.     65.99.     75.33.     85.71.     97.18.
         109.77.    122.88.    136.00.    149.11.    162.22.
         175.33.    188.43.    201.54.    214.65.    227.76.
         240.86.    247.42.    289.45.    313.95.    346.85.
         379.65.    412.51.    445.38.    478.25.    511.11.
         543.97.    576.81.    609.65.    642.52.    675.38.
         708.25.    741.11.    773.95.    806.8C.    839.66.
         872.53.    905.42.    938.30.    971.17.    1004.06.
         1036.94.   1069.83.   1102.72.   1135.60.   1168.47.
         1201.35.   1234.23.   1267.12.   1300.05.   1332.98.
         1365.9C.   1398.83.   1431.74.   1464.64.   1497.54.
         1530.44.   1563.34.   1596.25.   1629.17.   1662.08.
         1694.95.   1727.90.   1760.83.   1793.77.   1826.71.
         1859.65.   1892.57.   1925.52.   1958.47.   1991.43.
         2024.38.   2057.32.   2070.50.   2083.68.   2096.86.
         2110.03.   2123.21.   2136.39.   2149.54.   2162.68.
         2175.82.   2188.96.   2202.09.   2215.23.   2228.36.
         2241.49.   2254.63.   2267.76.   2280.89.   2294.02.
         2307.16.   2320.29.   2333.41.   2346.54.   2359.67.
         2372.75.   2385.89.   2398.88.   2411.81.   2424.61.
         2437.24.   2449.63.   2461.75.   2473.52.   2484.90.
         2495.82.   2506.24.   2516.11.   2525.35.   2533.93.
         2541.78.   2548.85.   2555.09.   2560.44.   2564.84.
         2568.25.   2570.60.   2571.76.   2571.84.   2572.03.
VOLFS=
         .00.       .41.       .82.       1.22.      1.79.
         2.55.      3.54.      4.78.      6.31.      10.32.
         12.87.     15.82.     17.46.     19.20.     23.04.
         27.35.     32.15.     37.57.     43.54.     50.11.
         57.32.     65.20.     73.77.     82.96.     92.74.
         103.02.    113.70.    124.74.    136.14.    147.87.
         159.90.    172.22.    184.80.    197.62.    210.63.
         223.71.    236.81.    249.98.    282.94.    315.92.
         348.52.    381.53.    414.93.    447.94.    480.94.
         513.95.    546.96.    579.98.    613.00.    646.02.
         679.04.    712.06.    745.09.    778.12.    811.16.
         844.19.    877.23.    910.26.    943.30.    976.35.
         1009.40.   1042.45.   1075.51.   1108.56.   1141.62.
         1174.67.   1207.73.   1240.79.   1273.84.   1280.45.
         1293.66.   1306.90.   1320.12.   1333.34.   1346.57.
         1359.79.   1373.01.   1386.16.   1399.21.   1412.18.
         1425.01.   1437.65.   1450.05.   1462.14.   1473.87.
         1485.20.   1496.05.   1506.39.   1516.16.   1525.29.
         1533.74.   1541.45.   1548.37.   1554.44.   1559.61.
         1563.82.   1567.02.   1568.23.   1569.16.   1569.81.
HEDO=
         1208.40.   1206.70.   1197.60.   1194.90.   1193.40.
         1188.10.   1180.90.   1170.90.   1165.20.   1156.60.
         1142.00.   953.33.    951.33.    949.33.    946.33.
         945.33.    944.33.    943.33.    942.33.    941.33.
         940.33.    938.33.    937.33.    936.33.    935.33.
         934.33.    933.33.    932.33.    930.33.    928.33.
         926.33.    924.33.    922.33.    920.33.    918.33.
         916.33.    914.33.    912.33.    910.33.    908.33.
         906.33.    904.33.    902.33.    900.33.    898.33.
         896.33.    895.33.    890.33.    885.33.    880.33.
         875.33.    870.33.    865.33.    860.33.    855.33.
         850.33.    845.33.    840.33.    835.33.    830.33.
         825.33.    820.33.    815.33.    810.33.    805.33.
         800.33.    795.33.    790.33.    785.33.    780.33.
         775.33.    770.33.    765.33.    760.33.    755.33.
         750.33.    745.33.    740.33.    735.33.    730.33.
         725.33.    720.33.    715.33.    710.33.    705.33.
         700.33.    695.33.    690.33.    685.33.    680.33.
         675.33.    670.33.    665.33.    660.33.    655.33.
         650.33.    645.33.    640.33.    635.33.    630.33.
         625.33.    620.33.    618.33.    616.33.    614.33.
         617.33.    610.33.    608.33.    606.33.    604.33.
         602.33.    600.33.    598.33.    596.33.    594.33.
         592.33.    590.33.    588.33.    586.33.    584.33.
         582.33.    580.33.    578.33.    576.33.    574.33.
         572.33.    570.33.    568.33.    566.33.    564.33.
         562.33.    560.33.    558.33.    556.33.    554.33.
         552.33.    550.33.    548.33.    546.33.    544.33.
         542.33.    540.33.    538.33.    536.33.    534.33.
         532.33.    530.33.    529.33.    528.33.    527.33.

HEDF=

         1226.40.   1204.55.   1200.55.   1198.55.   1196.55.
         1194.55.   1192.55.   1190.55.   1188.55.   1184.55.
```

```
   1182.55,   1180.55,   1179.55,   1178.55,   1176.55,
   1174.55,   1172.55,   1170.55,   1168.55,   1166.55,
   1164.55,   1162.55,   1160.55,   1158.55,   1156.55,
   1154.55,   1152.55,   1150.55,   1148.55,   1146.55,
   1144.55,   1142.55,   1140.55,   1138.55,   1136.55,
   1134.55,   1132.55,   1130.55,   1125.55,   1120.55,
   1115.55,   1110.55,   1105.55,   1100.55,   1095.55,
   1090.55,   1085.55,   1080.55,   1075.55,   1070.55,
   1065.55,   1060.55,   1055.55,   1090.55,   1045.55,
   1040.55,   1035.55,   1030.55,   1025.55,   1020.55,
   1015.55,   1010.55,   1005.55,   1000.55,    995.55,
    990.55,    985.55,    980.55,    975.55,    974.55,
    972.55,    970.55,    968.55,    966.55,    964.55,
    962.55,    960.55,    958.55,    956.55,    954.55,
    952.55,    950.55,    948.55,    946.55,    944.55,
    942.55,    940.55,    938.55,    936.55,    934.55,
    932.55,    930.55,    928.55,    926.55,    924.55,
    922.55,    920.55,    919.55,    918.55,    917.55,
OTIMS=          0.,       50.,       70.,       85.,      105.,      130.,
              195.0,    221.5,    250.0,
OTMPS=      -284.14,  -284.00,  -282.98,  -281.22,  -280.46,  -280.46,
            -281.22,  -281.53,  -282.66,
NDIL=0.,


          TEMPERATURE ARGUMENT FOR LOX DENSITY AT PUMP INLET

    ONTMPS(1)=  -305.6,  -303.6,  -301.6,  -299.6,  -297.6,  -295.6,
    ONTMPS(7)=  -293.6,  -291.6,  -289.6,  -287.6,  -285.6,  -283.6,
    ONTMPS(13)= -281.6,  -279.6,  -277.6,  -275.6,  -273.6,  -271.6,
    ONTMPS(19)= -269.6,  -267.6,


                          LOX DENSITY

   -ROO2S(1)=     72.88,   72.52,   72.15,   71.79,   71.42,   71.05,
    ROO2S(7)=     70.67,   70.29,   69.91,   69.53,   69.14,   68.75,
    ROO2S(13)=    68.36,   67.97,   67.57,   67.16,   66.76,   66.35,
    ROO2S(19)=    65.93,   65.51,


                        NITROGEN DENSITY

    RON2S(1)=   47.962,  47.619,  47.259,  46.904,  46.555, 46.189,
    RON2S(7)=   45.809,  45.434,  45.065,  44.663,  44.287,  43.879,
    RON2S(13)=  43.455,  43.048,  42.626,  42.194,  41.794,  41.288,
    RON2S(19)=  40.833,  40.395,
*
CCC=3.6, 90H    P.U. TABLES                  *
TVA=             0.,        1.5,        6.0,        9.0,       12.5,       15.0,
               27.4,       44.8,       55.0,       85.0,      100.0,      105.0,
              121.2,      215.2,      219.5,      221.7,       300.,
VA=            14.1,       -5.4,       -5.4,       -1.1,       -1.1,       -3.1,
               -9.4,       -5.4,       -2.2,       -2.4,      -3.35,      -4.35,
               -5.4,       -5.4,       +1.7,       -5.4,       -5.4,
TVANG=          -6.,        -5.,        -4.,        -3.,        -2.,        -1.,
                 0.,         1.,         2.,         3.,         4.,         5.,
                 6.,         8.,        10.,        12.,        14.,        16.,
TDTHS=485.,405.,315.,235.,155.,75.,0,-70.,-145.,-215.,-290.,-360.,-430.,
-570.,-705.,-835.,-970.,-1100.,
TDFDS=         -9.2,       -7.1,       -5.4,      -3.95,       -2.5,       -1.2,
                 0.,        1.2,        2.2,        3.1,        4.0,        4.8,
                5.5,        6.8,        8.0,        8.9,        9.9,       10.7,
TDODS=          9.2,        7.1,        5.4,       3.95,        2.5,        1.2,
                 0.,       -1.2,       -2.2,       -3.1,       -4.0,       -4.8,
               -5.5,       -6.8,       -8.0,       -8.9,       -9.9,      -10.7,
*
CCC = 27*
FVR1=4900.,
CSAM1=0.,.25,.50,.60,.70,.80,.85,.90,.93,.95,1.,1.05,1.1,1.15,1.25,
 1.4,1.5,1.75,2.,2.50,3.5,4.5,6.,8.,10.,
CSAC1=.38,.35,.35,.357,.372,.399,.424,.491,.595,.667,.74,.776,.789,
 .79,.77,.692,.648,.557,.48,.39,.32,.29,.273,.28,.3,
 CNVM1=   0.00,   0.20,   0.50,   0.70,   0.80,   0.90,   0.95,   1.00,
          1.05,   1.15,   1.25,   1.50,   1.75,   2.00,   2.25,   2.50,
          3.50,   5.00,   7.00,  10.00,
PALFA1=     0. ,     2.0,     4.0,     6.0,     8.0,    60.0,    90.0,
MALFA1=    -0. ,    -2.0,    -4.0,    -6.0,    -8.0,   -60.0,   -90.0,
  CNO1= 0.0045, 0.0045, 0.0045, 0.0045, 0.0050, 0.0065, 0.0060, 0.0053,
        0.0050, 0.0075, 0.0090, 0.0063, 0.0048, 0.0054, 0.0059, 0.0061,
        0.0064, 0.0050, 0.0036, 0.0030,
 DCMF1=-0.0035,-0.0035,-0.0037,-0.0040,-0.0045,-0.0047,-0.0047,-0.0047,
       -0.0047,-0.0047,-0.0048,-0.0054,-0.0107,-0.0072,-0.0032,-0.0035,
       -0.0043,-0.0030,-0.0022,-0.0020,
  CYO1= 0.0080, 0.0080, 0.0080, 0.0080, 0.0080, 0.0084, 0.0096, 0.0123,
        0.0150, 0.0152, 0.0204, 0.0189, 0.0172, 0.0157, 0.0142, 0.0135,
        0.0103, 0.0070, 0.0048, 0.0040,
 DCN71=-0.0024,-0.0024,-0.0023,-0.0023,-0.0023,-0.0008,-0.0010,-0.0030,
       -0.0043,-0.0061,-0.0071,-0.0075, 0.0005,-0.0025,-0.0069,-0.0052,
        0.0010, 0.0022, 0.0020, 0.0020,
PCNTBI= 0.0556, 0.0556, 0.0557, 0.0564, 0.0586, 0.0650, 0.0692, 0.0743,
        0.0731, 0.0677, 0.0672, 0.0690, 0.0733, 0.0732, 0.0720, 0.0736,
        0.0785, 0.0799, 0.0778, 0.0712,
        0.0556, 0.0556, 0.0557, 0.0566, 0.0593, 0.0660, 0.0708, 0.0754,
        0.0741, 0.0658, 0.0690, 0.0725, 0.0741, 0.0741, 0.0730, 0.0744,
        0.0798, 0.0810, 0.0789, 0.0722,
        0.0556, 0.0556, 0.0559, 0.0604, 0.0641, 0.0700, 0.0767, 0.0793,
        0.0779, 0.0751, 0.0737, 0.0742, 0.0777, 0.0783, 0.0781, 0.0792,
        0.0858, 0.0858, 0.0837, 0.0769,
        0.0556, 0.0556, 0.0580, 0.0654, 0.0701, 0.0755, 0.0807, 0.0842,
        0.0833, 0.0811, 0.0800, 0.0806, 0.0838, 0.0854, 0.0855, 0.0862,
        0.0922, 0.0938, 0.0915, 0.0850,
        0.0556, 0.0556, 0.0622, 0.0711, 0.0764, 0.0810, 0.0890, 0.0902,
        0.0890, 0.0873, 0.0863, 0.0885, 0.0938, 0.0960, 0.0968, 0.0990,
        0.1070, 0.1096, 0.1073, 0.1005,
        0.1294, 0.1294, 0.1432, 0.1812, 0.2125, 0.2450, 0.2640, 0.2815,
        0.2935, 0.2950, 0.2760, 0.2570, 0.2505, 0.2450, 0.2420, 0.2365,
        0.2300, 0.2260, 0.2220, 0.2180,
        0.1150, 0.1150, 0.1272, 0.1610, 0.1887, 0.2180, 0.2345, 0.2500,
        0.2605, 0.2615, 0.2455, 0.2285, 0.2225, 0.2180, 0.2145, 0.2100,
        0.2025, 0.2010, 0.2000, 0.1995,
PFNTBI= 0.1956, 0.1956, 0.1956, 0.2250, 0.2500, 0.2505, 0.2483, 0.2542,
        0.2570, 0.2013, 0.1757, 0.1900, 0.1858, 0.1874, 0.1963, 0.2022,
        0.2318, 0.2768, 0.2879, 0.2890,
        0.1996, 0.1996, 0.1996, 0.2367, 0.2642, 0.2635, 0.2619, 0.2721,
        0.2711, 0.2458, 0.2112, 0.2055, 0.1966, 0.1899, 0.1914, 0.1958,
        0.2244, 0.2636, 0.2752, 0.2751,
        0.1956, 0.1996, 0.2055, 0.2466, 0.2600, 0.2710, 0.2772, 0.2859,
        0.2834, 0.2615, 0.2424, 0.2330, 0.2251, 0.2164, 0.2101, 0.2121,
        0.2398, 0.2715, 0.2831, 0.2831,
        0.1996, 0.1996, 0.2251, 0.2659, 0.2782, 0.2877, 0.2905, 0.2914,
        0.2900, 0.2675, 0.2547, 0.2488, 0.2443, 0.2376, 0.2298, 0.2284,
        0.2561, 0.2954, 0.3060, 0.3070,
        0.1956, 0.1956, 0.2409, 0.2762, 0.2877, 0.2957, 0.2981, 0.2975,
        0.2940, 0.2735, 0.2622, 0.2651, 0.2646, 0.2584, 0.2565, 0.2591,
        0.2938, 0.3312, 0.3428, 0.3439,
        0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
        0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
        0.4000, 0.4000, 0.4000, 0.4000,
        0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200,
        0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200,
        0.4200, 0.4200, 0.4200, 0.4200,
MCNTBI= 0.0546, 0.0546, 0.0547, 0.0554, 0.0579, 0.0650, 0.0702, 0.0755,
        0.0746, 0.0703, 0.0677, 0.0704, 0.0749, 0.0747, 0.0730, 0.0742,
        0.0813, 0.0824, 0.0801, 0.0733,
        0.0546, 0.0546, 0.0547, 0.0561, 0.0594, 0.0665, 0.0717, 0.0765,
        0.0758, 0.0719, 0.0693, 0.0720, 0.0756, 0.0754, 0.0738, 0.0750,
        0.0823, 0.0836, 0.0813, 0.0745,
        0.0546, 0.0546, 0.0555, 0.0607, 0.0643, 0.0722, 0.0767, 0.0804,
        0.0753, 0.0765, 0.0750, 0.0793, 0.0809, 0.0799, 0.0803, 0.0815,
        0.0873, 0.0882, 0.0856, 0.0797,
        0.0546, 0.0546, 0.0592, 0.0667, 0.0702, 0.0763, 0.0810, 0.0856,
        0.0853, 0.0830, 0.0826, 0.0868, 0.0879, 0.0874, 0.0880, 0.0895,
        0.0959, 0.0977, 0.0956, 0.0887,
        0.0546, 0.0546, 0.0652, 0.0733, 0.0770, 0.0822, 0.0867, 0.0921,
        0.0922, 0.0914, 0.0915, 0.0976, 0.0985, 0.0984, 0.0998, 0.1034,
        0.1121, 0.1130, 0.1107, 0.1041,
        0.1254, 0.1294, 0.1432, 0.1812, 0.2125, 0.2450, 0.2640, 0.2815,
        0.2935, 0.2950, 0.2760, 0.2570, 0.2505, 0.2450, 0.2420, 0.2365,
        0.2300, 0.2260, 0.2220, 0.2180,
        0.1150, 0.1150, 0.1272, 0.1610, 0.1887, 0.2180, 0.2345, 0.2500,
        0.2605, 0.2615, 0.2455, 0.2285, 0.2225, 0.2180, 0.2145, 0.2100,
        0.2025, 0.2010, 0.2000, 0.1993,
MFNTBI= 0.1770, 0.1770, 0.1770, 0.1875, 0.2150, 0.2350, 0.2415, 0.2415,
        0.2200, 0.1320, 0.1325, 0.1665, 0.1805, 0.2030, 0.2080, 0.2090,
        0.2270, 0.2835, 0.2970, 0.2980,
        0.1771, 0.1771, 0.1771, 0.2260, 0.2520, 0.2597, 0.2624, 0.2659,
        0.2577, 0.2285, 0.2127, 0.2080, 0.2285, 0.2287, 0.2218, 0.2194,
        0.2397, 0.2878, 0.3019, 0.3029,
        0.1771, 0.1771, 0.1815, 0.2544, 0.2736, 0.2817, 0.2840, 0.2845,
        0.2781, 0.2577, 0.2512, 0.2429, 0.2472, 0.2445, 0.2406, 0.2382,
        0.2556, 0.2953, 0.3058, 0.3109,
        0.1771, 0.1771, 0.1967, 0.2712, 0.2861, 0.2955, 0.2968, 0.2959,
        0.2920, 0.2763, 0.2709, 0.2665, 0.2665, 0.2613, 0.2569, 0.2555,
        0.2779, 0.3167, 0.3308, 0.3328,
        0.1771, 0.1771, 0.2223, 0.2836, 0.2995, 0.3074, 0.3072, 0.3029,
        0.2980, 0.2902, 0.2867, 0.2878, 0.2898, 0.2856, 0.2837, 0.2888,
        0.3172, 0.3451, 0.3632, 0.3668,
        0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
        0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000, 0.4000,
        0.4000, 0.4000, 0.4000, 0.4000,
        0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200,
        0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200, 0.4200,
        0.4200, 0.4200, 0.4200, 0.4200,
PCYTBI= 0.0735, 0.0735, 0.0735, 0.0752, 0.0800, 0.0818, 0.0828, 0.0852,
        0.0850, 0.0825, 0.0803, 0.0814, 0.0833, 0.0844, 0.0852, 0.0860,
        0.0879, 0.0854, 0.0814, 0.0843,
        0.0735, 0.0735, 0.0735, 0.0752, 0.0800, 0.0822, 0.0830, 0.0856,
        0.0853, 0.0833, 0.0811, 0.0821, 0.0852, 0.0851, 0.0857, 0.0867,
        0.0887, 0.0865, 0.0827, 0.0853,
        0.0735, 0.0735, 0.0743, 0.0789, 0.0819, 0.0838, 0.0858, 0.0894,
        0.0886, 0.0858, 0.0836, 0.0858, 0.0878, 0.0882, 0.0887, 0.0896,
        0.0930, 0.0926, 0.0897, 0.0825,
        0.0735, 0.0735, 0.0773, 0.0823, 0.0843, 0.0873, 0.0900, 0.0943,
        0.0937, 0.0904, 0.0882, 0.0911, 0.0938, 0.0940, 0.0947, 0.0968,
        0.1027, 0.1016, 0.0984, 0.0910,
        0.0735, 0.0735, 0.0808, 0.0862, 0.0877, 0.0920, 0.0960, 0.0993,
        0.0990, 0.0970, 0.0953, 0.0984, 0.1005, 0.1012, 0.1030, 0.1062,
        0.1145, 0.1130, 0.1090, 0.1013,
        0.1370, 0.1370, 0.1516, 0.1920, 0.2245, 0.2585, 0.2795, 0.2980,
        0.3105, 0.3125, 0.2925, 0.2725, 0.2650, 0.2595, 0.2560, 0.2505,
        0.2410, 0.2395, 0.2385, 0.2375,
        0.1217, 0.1217, 0.1347, 0.1703, 0.1997, 0.2305, 0.2485, 0.2645,
        0.2760, 0.2775, 0.2600, 0.2420, 0.2355, 0.2305, 0.2270, 0.2225,
        0.2142, 0.2125, 0.2117, 0.2110,
PFYTBI= 0.4165, 0.4165, 0.4165, 0.4245, 0.4350, 0.4345, 0.4260, 0.4140,
        0.4000, 0.3810, 0.3690, 0.3460, 0.3310, 0.3220, 0.3170, 0.3130,
        0.3125, 0.3310, 0.3360, 0.3375,
        0.4165, 0.4165, 0.4165, 0.4245, 0.4350, 0.4345, 0.4260, 0.4140,
        0.4000, 0.3810, 0.3690, 0.3460, 0.3310, 0.3220, 0.3170, 0.3130,
        0.3155, 0.3345, 0.3400, 0.3410,
        0.4165, 0.4165, 0.4185, 0.4320, 0.4385, 0.4435, 0.4400, 0.4260,
        0.4110, 0.3920, 0.3755, 0.3500, 0.3365, 0.3295, 0.3245, 0.3200,
        0.3235, 0.3415, 0.3455, 0.3460,
        0.4165, 0.4165, 0.4185, 0.4320, 0.4385, 0.4435, 0.4400, 0.4260,
        0.4170, 0.3955, 0.3845, 0.3575, 0.3445, 0.3365, 0.3310, 0.3275,
        0.3320, 0.3480, 0.3535, 0.3550,
        0.4165, 0.4165, 0.4200, 0.4320, 0.4385, 0.4435, 0.4400, 0.4260,
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        0.0911, 0.0912, 0.0880, 0.0797,
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        0.0921, 0.0923, 0.0853, 0.0810,
        0.0755, 0.0755, 0.0761, 0.0814, 0.0842, 0.0876, 0.0898, 0.0921,
        0.0913, 0.0880, 0.0854, 0.0875, 0.0898, 0.0912, 0.0916, 0.0927,
        0.0962, 0.0976, 0.0955, 0.0885,
        0.0755, 0.0755, 0.0786, 0.0858, 0.0890, 0.0920, 0.0943, 0.0966,
        0.0963, 0.0930, 0.0905, 0.0921, 0.0962, 0.0982, 0.0988, 0.0995,
        0.1047, 0.1070, 0.1051, 0.0957,
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        0.1014, 0.0985, 0.0969, 0.0996, 0.1044, 0.1074, 0.1090, 0.1112,
        0.1173, 0.1173, 0.1140, 0.1050,
        0.1370, 0.1370, 0.1516, 0.1920, 0.2245, 0.2585, 0.2795, 0.2980,
        0.3105, 0.3125, 0.2925, 0.2725, 0.2650, 0.2595, 0.2560, 0.2505,
        0.2410, 0.2395, 0.2385, 0.2375,
        0.1217, 0.1217, 0.1347, 0.1703, 0.1997, 0.2305, 0.2485, 0.2645,
        0.2760, 0.2775, 0.2600, 0.2420, 0.2355, 0.2305, 0.2270, 0.2225,
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MFYTBI=  .4140,  .4140,  .4140,  .4165,  .4335,  .4330,  .4260,  .4160,
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        0.4082, 0.3935, 0.3810, 0.3585, 0.3365, 0.3270, 0.3275, 0.3215,
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        0.3255, 0.3445, 0.3480, 0.3480,
        0.4140, 0.4140, 0.4235, 0.4365, 0.4420, 0.4415, 0.4370, 0.4280,
        0.4200, 0.4060, 0.3940, 0.3745, 0.3685, 0.3575, 0.3480, 0.3425,
        0.3450, 0.3560, 0.3600, 0.3600,
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CSAC2=    0.2830.     0.2830.
CND2=     0.0030.     0.0030.
DCMEZ=   -0.0020.    -0.0020.
CYO2=     0.0040.     0.0040.
DCP72=    0.0020.     0.0020.
PCNTII=   0.0688.     0.0688.
          0.0695.     0.0695.
          0.0732.     0.0732.
          0.0805.     0.0805.
          0.0939.     0.0939.
          0.1875.     0.1875.
          0.1762.     0.1762.
PFNTII=   0.2515.     0.2515.
          0.2414.     0.2414.
          0.2474.     0.2474.
          0.2683.     0.2683.
          0.2991.     0.2991.
          0.3700.     0.3700.
          0.3760.     0.3760.
MCNTII=   0.0707.     0.0707.
          0.0715.     0.0715.
          0.0760.     0.0760.
          0.0840.     0.0840.
          0.0972.     0.0972.
          0.1875.     0.1875.
          0.1762.     0.1762.
MFNTII=   0.2515.     0.2515.
          0.2543.     0.2543.
          0.2618.     0.2618.
          0.2812.     0.2812.
          0.3091.     0.3091.
          0.3700.     0.3700.
          0.3760.     0.3760.
PCYTII=   0.0620.     0.0620.
          0.0630.     0.0630.
          0.0682.     0.0682.
          0.0758.     0.0758.
          0.0852.     0.0852.
          0.1858.     0.1858.

          0.1780.     0.1780.
PFYTII=   0.2540.     0.2540.
          0.2580.     0.2580.
          0.2620.     0.2620.
          0.2760.     0.2760.
          0.2960.     0.2960.
          0.3650.     0.3650.
          0.3710.     0.3710.
MCYTII=   0.0672.     0.0672.
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          0.0742.     0.0742.
          0.0812.     0.0812.
          0.0885.     0.0885.
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          0.1780.     0.1780.
MFYTII=   0.2540.     0.2540.
          0.2535.     0.2535.
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          0.3010.     0.3010.
          0.3650.     0.3650.
          0.3710.     0.3710.
TLURPT = 1./
TLURD = 2.
TLUPA = 2.
TLUTM =2.
 PSUBAC = 0.014503.
 RHOMC = 0.15414617-5.
 TTEMPC = 1..
 TTEMPB = 273.16.
ALTPRT =
          -1000..        0..     1000..     2000..     3000..     4000..     5000..
  6000..    7000..    8000..     9000..    10000..    11000..    12000..    13000..
 14000..   15000..   16000..    17000..    18000..    19000..    20000..    21000..
 22000..   23000..   24000..    25000..    26000..    27000..    28000..    29000..
 30000..   31000..   32000..    33000..    34000..    35000..    36000..    37000..
 38000..   39000..   40000..    41000..    42000..    43000..    44000..    45000..
 46000..   47000..   48000..    49000..    50000..    51000..    52000..    53000..
 54000..   55000..   56000..    57000..    58000..    59000..    60000..    61000..
 62000..   63000..   64000..    65000..    66000..    67000..    68000..    69000..
 70000..   71000..   72000..    73000..    74000..    75000..    76000..    77000..
 78000..   79000..   80000..    81000..    82000..    83000..    84000..    85000..
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 94000..   95000..   96000..    97000..    98000..    99000..   100000..   101000..
   102000.. 103000.. 104000.. 105000.. 110000.. 120000..
    130000.. 140000.. 150000.. 155480.. 1000000..
PSUBAT=
  1018.30.  1018.30.   984.53.   951.08.   918.60.   886.99.   856.19.
   826.27.   797.14.   768.88.   741.42.   714.85.   689.07.   664.06.
   639.80.   616.26.   593.44.   571.30.   549.84.   529.06.   508.96.
   489.50.   470.70.   452.48.   434.84.   417.76.   401.22.   385.25.
   369.77.   354.79.   340.30.   326.26.   312.65.   299.48.   286.77.
   274.46.   262.57.   251.07.   239.94.   225.19.   218.81.   208.79.
   199.09.   189.75.   180.77.   172.13.   163.84.   155.86.   148.21.
   140.85.   133.88.   127.31.   121.06.   115.12.   109.49.   104.11.
    99.00.    94.15.    89.53.    85.14.    80.97.    77.06.    73.36.
    69.86.    66.53.    63.37.    60.36.    57.51.    54.81.    52.25.
    49.82.    47.51.    45.31.    43.22.    41.25.    39.37.    37.58.
    35.89.    34.27.    32.72.    31.24.    29.82.    28.47.    27.18.
    25.95.    24.77.    23.65.    22.59.    21.58.    20.62.    19.70.
     18.82.    17.99.    17.19.    16.44.    15.72.    15.02.    14.36.
     13.73.    13.13.    12.56.    12.02.    11.50.    11.00.    10.53.
     10.08. 9.65. 7.60. 4.95. 3.30. 2.25. 1.50. 1.20. 0.0.
TTEMPT =
      29.6.     29.6.     25.6.     23.9.     22.1.     20.2.     18.0.
      16.1.     14.1.     12.0.     10.9.      9.6.      7.9.      5.8.
       4.0.      2.3.      0.3.    - 1.5.    - 3.3.    - 4.7.    - 6.4.
    - 7.8.    - 9.4.    -11.7.    -13.4.    -15.3.    -17.0.    -19.1.
     -21.2.    -23.5.    -25.7.    -28.3.    -31.1.    -32.9.    -35.4.
     -37.8.    -40.5.    -43.0.    -45.7.    -48.3.    -50.9.    -53.9.
     -56.4.    -58.8.    -60.5.    -62.6.    -64.4.    -66.8.    -67.9.
     -70.2.    -68.9.    -67.4.    -67.8.    -67.0.    -67.2.    -67.5.
     -68.1.    -67.0.    -67.5.    -67.8.    -65.9.    -63.4.    -62.3.
     -61.1.    -61.2.    -60.8.    -59.9.    -59.2.    -57.5.    -56.1.
     -56.6.    -55.3.    -54.7.    -53.2.    -52.0.    -51.1.    -50.1.
     -49.4.    -49.8.    -50.2.    -50.8.    -50.6.    -50.2.    -50.8.
     -50.5.    -50.5.    -49.3.    -48.8.    -48.0.    -46.7.    -46.6.
     -46.0.    -45.6.    -44.7.    -43.9.    -43.5.    -44.3.    -44.2.
     -43.4.    -42.2.    -41.3.    -40.1.    -39.2.    -38.8.    -38.5.
   -37.1.-35.7.-31.5.-22.5.-14.0.-5.0.+3.5. 13.0. 13.0.
 RHOMT =
    1159.02.  1159.02.  1135.68.  1105.31.  1074.71.  1046.08.  1018.19.
     995.67.   961.36.   934.55.   905.42.   877.50.   851.06.   826.40.
     801.64.   777.41.   754.17.   731.46.   709.12.   685.39.   663.85.
     641.85.   621.05.   602.33.   582.82.   564.13.   545.45.   528.23.
     511.26.   495.15.   479.22.   464.31.   450.11.   434.45.   420.33.
     406.42.   393.23.   380.21.   367.57.   355.14.   343.13.   331.82.
     320.14.   308.56.   296.32.   284.90.   273.59.   263.24.   251.71.
     241.56.   228.44.   215.64.   205.50.   194.58.   185.30.   176.46.
     168.30.   159.17.   151.75.   144.51.   136.18.   128.02.   121.28.
     114.83.   109.39.   103.98.    98.67.    93.67.    88.58.    83.89.
      80.16.    75.98.    72.27.    68.49.    65.00.    61.79.    58.72.
      55.50.    53.46.    51.14.    48.96.    46.69.    44.49.    42.60.
      40.61.    38.77.    36.83.    35.10.    33.40.    31.72.    30.30.
    28.88.  27.54.  26.22.  24.99.  23.84.  22.87.  21.86.
    20.83.  19.81.  18.87.  17.97.  17.12.  16.36.  15.63.
   14.88. 14.16. 11.15. 6.95. 4.55. 3.00. 1.95. 1.49. 0.0.
*
CCC = 2.4. 4CH AC-6 11 AUG 65 1440Z HRS                          *
    METERS = 1..
WALTA =
       0..      500..     1000..     1500..     2000..     3000..     5000..
    6500..     8000..     9000..    10000..    12000..    13500..    15500..
   17000..    18500..    20000..    21500..    22500..    23000..    24500..
   25000..    26500..    26500..    28500..    29000..    30000..    30500..
   31500..    33000..    34000..    35500..    38000..    39500..    40500..
   44500..    46000..    47500..    48500..    52500..    55000..    57000..
   62000..    63500..    64500..    67000..    68500..    71000..    73000..
   74000..    76000..    77000..    80000..    85000..    88000..    90500..
   93500..    96500..   100000..   500000..
WSPD =
       6..        8..        6..        6..        7..        7..        9..
       6..        6..        8..       11..       12..       12..       12..
      10..        5..        8..       11..       11..       10..        6..
       6..        6..        7..        7..        6..        6..        7..
       7..        5..        5..        8..        8..        8..      5.5.
     5.5.        9..        7..        6..       20..       11..      5.5.
      22..       26..       31..       28..       37..       39..       30..
      26..       71..       22..       28..       35..       37..       32..
      39..       45..       47..

WANG =
     170..       85..       98..      121..      138..      141..      149..
     160..      151..      180..      188..      182..      192..      183..
     185..      173..      166..      172..      181..      184..      163..
     156..      165..      167..      177..      184..      184..      175..
     145..      127..      134..      137..      164..      149..      146..
     110..       93..       86..      105..      158..      171..       93..
      80..       83..       90..       86..       75..      106..      125..
     122..       94..       79..       76..      103..       99..       85..
      71..       80..       97..      100..
*
CCC  =5.1.50H JETTISON NOSE FAIRING AND INSULATION PANELS          *
SX = 2.2.
ST = 26.758. 51.608.
 SW = 1225.. 2005..
*
CCC=C.0* TSUBL = 52256.43. ID = 12N-6 NOM
CCC=2.30.*TRCLR = 0.. 1.573906. *
CCC=0.0./
```

```
CASE  1                    TRAJECTORY ID  -6 ACP                      SECTION  1                                PAGE   1
           TIME           ALTITUDE      VELOCITY RA  FLT PATH R   VELOCITY I   FLT PATH I  AXL FORCE   VEL R AZ     DYNM PRS
           LONGITUDE      R MAGNITUDE   THRST FIXED  PITCH ATT    WEIGHT       AXL LD FCTR NORM FORCE  ALPHA        ATM PRS
           GEOCENT LAT    GRND RANGE    THRST CONTL  PITCH RATE   WEIGHT DOT   MACH NUMBER SIDE FORCE  BETA         REV NUMB
ENGLISH UNITS
   CM XI          AC XI          VMU            RMU            L11            L12            L13            ACOL11
   CM ETA         AC ETA         VMV            RMV            L21            L22            L23            ACOL12
   CM ZET         AC ZET         VMW            RMW            L31            L32            L33            ACOL13
   D LOSS         G LOSS         P LOSS         ML ALF         ML BET         T LOSS         SP IMP         TOT IM
   F FLUX         H PARA         DBLOSS         IISP
1      NPSH           PIX            W.B            W.S            WF             WO             VALVE          ACS
2      PIPFB          PIPOB          PIPFS          PIPOS          FUDEN          OXDEN          F STA          O STA
3      W.FB           W.OB           W.FS           W.CS           W.FV           W.OV           W.F            W.O
4      THINC          FUINC          CXINC          CAPF           CAPO           CAPRA          IGFP           MIXRS
5      PG(F)          PG(O)          PVPO           PSUBA          BMIXR          BTHINC         BFUINC         BOXINC
6      DPF            DPO            WEOI           WSCI           WBHE           WSHE           EDO

                 -0.              0.        10.128     -0.01373     1342.434      -0.          -3932.48   94.462         0.12
               279.4588  20909901.25     58477.646     89.95922   303510.000      1.24916        93.98   90.276      2126.65
                28.3075         0.05    324589.066     0.            1575.717      0.00885        99.40   90.193     59643.60
 0.             0.12491634+01  0.12164825+04  0.35681887+05  0.51849816-03 -0.31031936-03 -0.99999974+00  0.89970290+02
 0.             0.19606511-02  0.56771467+03 -0.48168454+05  0.24189770-03  0.99999984+00 -0.31016821-03  0.89986139+02
 0.             0.16238867-02 -0.76808219+00  0.20909815+08  0.99999975+00 -0.24170379-03  0.51858860-03  0.40782340-01
 0.             0.             0.             0.             0.             0.             0.24310622+03  0.
 0.11688605+01  0.             0.             0.24310622+03
1   0.66316167+02  0.21177319+01  0.12982452+04  0.27506176+03  0.76103000+05  0.17228600+06  0.14100000+02  0.12491634+01
2   0.70088950+02  0.53344133+02  0.72164001+02  0.57972379+02  0.50379999+02  0.69239999+02  0.93769233+03  0.55371757+03
3   0.40995410+03  0.88825116+03  0.54637795+02  0.18042397+03  0.             0.             0.50463150+03  0.10686751+04
4  -0.57649555+03  0.59399997+01 -0.55399997+01  0.             0.             0.             0.             0.22476698+01
5   0.58731555+02  0.25531594+02  0.26083355+02  0.14768405+02  0.21664353+01 -0.22373548+03  0.13537837-00  0.31871207-00
6   0.87576770+01  0.19201867+02  0.16599999+03  0.52999999+02  0.86000030+02  0.16900000+03  0.             0.68855299+02

                 1.0000           3.50        13.012     89.28113     1342.437      0.35285      -3058.99  347.113         0.19
               279.4588  20909905.25     59380.053     89.96366   301934.340      1.26178        50.01   35.406      2126.40
                28.3075         0.06    324653.402     -0.00546     1575.985      0.01137        79.44   44.841     76623.86
 0.             0.12617771+01  0.12164138+04  0.36858336+05  0.42317631-03 -0.31030557-03 -0.99999978+00  0.89975750+02
-0.54620137-02  0.18985310-02  0.56782005+03 -0.47600686+05  0.21528132-03  0.99999984+00 -0.31019126-03  0.89987663+02
-0.15233128-02  0.15057489-02  0.74133462+01  0.20905818+08  0.99999980+00 -0.21511696-03  0.42325849-03  0.36342480-01
 0.37131993-03 -0.37131993-00  0.32209363+02  0.19697507-02  0.62656403-03  0.32582653+02  0.24337156+03  0.38354997+06
 0.24784353+01  0.18236481+01  0.75534579+02  0.24367827+03
1   0.66781733+02  0.21728135+01  0.12585120+04  0.27506319+03  0.75602694+05  0.17121306+06  0.10999995+01  0.12617771+01
2   0.70087445+02  0.53563452+02  0.72177328+02  0.58201006+02  0.50379999+02  0.69238997+02  0.93966044+03  0.55645510+03
3   0.40955759+03  0.88855442+03  0.55998186+02  0.18906500+03  0.             0.             0.49595577+03  0.10776193+04
4  -0.77499557+02  0.12599995+01 -0.12599999+01  0.             0.             0.             0.             0.22476717+01
5   0.58713308+02  0.25573309+02  0.26090587+02  0.14766690+02  0.21673691+01 -0.22076602+03  0.13358170-00  0.31449132-00
6   0.87738482+01  0.19256260+02  0.16504999+03  0.52850000+02  0.85389999+02  0.16830000+03  0.             0.68854751+02

                 2.0000          15.75        19.663     89.28883     1342.489      0.72195      -2314.65  345.328         0.43
               279.4588  20909917.50     59904.598     89.96795   300358.418      1.27285        49.63   20.002      2125.54
                28.3075         0.22    324721.684     -0.00546     1576.206      0.01718        81.78   25.291    115775.47
 0.             0.12728491+01  0.12163436+04  0.38114713+05  0.32785445-03 -0.31029432-03 -0.99999982+00  0.89981213+02
-0.54620137-02  0.19342022-02  0.56792315+03 -0.47032814+05  0.18866493-03  0.99999984+00 -0.31021179-03  0.89989188+02
-0.15233128-02  0.15545806-02  0.15975831+02  0.20909830+08  0.99999984+00 -0.18853015-03  0.32792839-03  0.32051055-01
 0.65808597+00 -0.65808597+00  0.64416172+02  0.57635301-02  0.18553734-02  0.65090021+02  0.24360192+03  0.76787972+06
 0.85503651+01  0.73380483+01  0.78056615+02  0.24402030+03
1   0.67172715+02  0.22337242+01  0.12587334+04  0.27506224+03  0.75111364+05  0.17013088+06 -0.53999998+01  0.12728491+01
2   0.70078670+02  0.53748235+02  0.72181627+02  0.58395759+02  0.50379999+02  0.69237997+02  0.94149994+03  0.55908253+03
3   0.40992384+03  0.88880956+03  0.76758239+02  0.19830400+03  0.             0.             0.48668208+03  0.10871135+04


CASE  1                    TRAJECTORY ID  -6 ACP                      SECTION  1                                PAGE   2
4   0.43699558+03 -0.79399996+01  0.75399996+01  0.             0.             0.             0.             0.22476583+01
5   0.58699308+02  0.25619308+02  0.26097813+02  0.14760690+02  0.21681709+01 -0.21821629+03  0.13203503-00  0.31086717-00
6   0.87830233+01  0.19290952+02  0.16410000+03  0.52700000+02  0.84779999+02  0.16760000+03  0.             0.68854205+02

                 4.0000          68.00        36.589     89.27419     1342.752      1.50025      -1192.03  340.725         1.50
               279.4588  20909969.75     59945.712     89.97202   297205.664      1.29078        81.04   11.346      2121.85
                28.3075         0.78    324873.000     -0.00546     1576.505      0.03195       111.07   11.950    215325.58
 0.15533011+01  0.12907760+01  0.12161644+04  0.40547226+05  0.13874693-03 -0.54503691-01 -0.59851348+00  0.89992048+02
-0.54620137-02  0.21087912-02  0.56812710+03 -0.45856763+05  0.13029110-03  0.99851346+00 -0.54503651-01  0.89992534+02
-0.15233128-02  0.18316909-02  0.34043774+02  0.20909880+08  0.99999588+00 -0.12250135-03  0.14565564-03  0.27976454-01
 0.10286024+01 -0.13286024+01  0.12982986+03  0.13037397-01  0.42064190-02  0.12987150+03  0.24382255+03  0.15373149+07
 0.55034424+02  0.63228217+02  0.84400563+02  0.24409599+03
1   0.67735767+02  0.22347482+01  0.12590424+04  0.27505273+03  0.74138061+05  0.16795625+06 -0.53999598+01  0.12907760+01
2   0.70036916+02  0.54016332+02  0.72161040+02  0.58679980+02  0.50379999+02  0.69235998+02  0.94494090+03  0.56413339+03
3   0.40986334+03  0.88917907+03  0.76757255+02  0.19829548+03  0.             0.             0.48662060+03  0.10874745+04
4   0.43455558+03 -0.79399596+01  0.75399996+01  0.             0.             0.             0.             0.22475826+01
5   0.58684897+02  0.25724898+02  0.26112247+02  0.14735100+02  0.21693940+01 -0.21432705+03  0.12968593-00  0.30533909-00
6   0.87779511+01  0.19390867+02  0.16220000+03  0.52400000+02  0.83559599+02  0.16620000+03  0.             0.68853113+02

                 6.0000         157.25        55.514     89.23950     1343.249      2.32595       -516.49  335.316         3.46
               279.4588  20910059.00     60016.515     90.02709   294052.383      1.30784       143.50    9.204      2115.56
                28.3075         1.98    325075.551     -0.00546     1576.763      0.04856       125.89    6.221    326412.22
 0.15533011+01  0.13078441+01  0.12159328+04  0.42979334+05 -0.46919186-04 -0.10853690-00 -0.99409233+00  0.90002687+02
-0.54620137-02  0.22129653-02  0.56932365+03 -0.44760311+05  0.61754593-04  0.99409230+00 -0.10853688-00  0.89996459+02
-0.15233128-02  0.23386859-02  0.53232466+02  0.20909967+08  0.99999589+00 -0.66447654-04 -0.39527596-04  0.27088086-01
 0.12089938+01 -0.12089938+01  0.19324296+03  0.20293817-01  0.65102577-02  0.19447134+03  0.24393137+03  0.23072147+07
 0.15187350+03  0.25499530+03  0.89906636+02  0.24422545+03
1   0.68243365+02  0.22356978+01  0.12593146+04  0.27503821+03  0.73164883+05  0.16578096+06 -0.53999999+01  0.13078441+01
2   0.69993182+02  0.54265295+02  0.72137465+02  0.58944287+02  0.50379999+02  0.69232997+02  0.94818430+03  0.56899867+03
3   0.40580170+03  0.88951293+03  0.76755726+02  0.19828248+03  0.             0.             0.48655743+03  0.10877953+04
4   0.43655555+03 -0.79399958+01  0.75399998+01  0.             0.             0.             0.             0.22474680+01
5   0.58688610+02  0.25848610+02  0.26133919+02  0.14691389+02  0.21705362+01 -0.21069457+03  0.12748816-00  0.30017592-00
6   0.87710554+01  0.19300365+02  0.16029999+03  0.52100000+02  0.82339999+02  0.16480000+03  0.             0.68852022+02

                 8.0000         286.75        75.749     89.19403     1344.003      3.19577       -226.86  329.201         6.42
               279.4588  20910188.50     59879.939     90.03128   290858.645      1.32342       237.05    8.363      2106.43
                28.3075         3.64    325328.844     -0.00546     1576.952      0.06632        80.26    2.058    444818.84
 0.15533011+01  0.13234191+01  0.12156313+04  0.45410511+05 -0.22859818-03 -0.16225111-00 -0.98674937+00  0.90013096+02
-0.54620137-02  0.20159846-02  0.56949600+03 -0.43623485+05 -0.16743167-04  0.98674937+00 -0.16225109-00  0.90000958+02
-0.15233128-02  0.30549033-02  0.73471464+02  0.20910093+08  0.99999585+00 -0.20533800-04 -0.22827587-03  0.31278626-01
 0.12842917+01 -0.12842917+01  0.25765498+03  0.27733929-01  0.89161396-02  0.25896700+03  0.24400830+03  0.30774991+07
 0.48615568+03  0.54861627+03  0.94415660+02  0.24427418+03
1   0.68652585+02  0.22057615+01  0.12995246+04  0.27501715+03  0.72186909+05  0.16361002+06 -0.25333332+01  0.13234191+01
2   0.69540504+02  0.54475064+02  0.72103173+02  0.59168019+02  0.50379999+02  0.69228997+02  0.95130971+03  0.57377413+03
3   0.40573550+03  0.88978476+03  0.81420082+02  0.19359707+03  0.             0.             0.49115598+03  0.10833818+04
4   0.15766666+03 -0.32733332+01  0.32733332+01  0.             0.             0.             0.             0.22473054+01
5   0.58712035+02  0.25992035+02  0.26162811+02  0.14627963+02  0.21715282+01 -0.20754010+03  0.12557960-00  0.29569222-00
6   0.87554950+01  0.19275821+02  0.15840000+03  0.51799999+02  0.81119999+02  0.16339999+03  0.             0.68850930+02

                10.0000         457.75        97.118     85.14898     1345.039      4.10695       -234.11  322.106        10.51
               279.4588  20910359.50     59901.489     90.03831   287744.586      1.33907       330.73    7.167      2094.37
                28.3075         6.22    325644.910     -0.00546     1577.118      0.08512      -106.87   -1.821    569319.92
 0.15533011+01  0.13390731+01  0.12152570+04  0.47841810+05 -0.40575609-03 -0.21548846-00 -0.97650619+00  0.90023247+02
-0.54620137-02  0.11005423-02  0.56860487+03 -0.42486368+05 -0.10497145-03  0.97650625+00 -0.21548841-00  0.90006013+02
-0.15233128-02  0.38682732-02  0.94705817+02  0.20910262+08  0.99999578+00  0.15105240-04 -0.41883559-03  0.38308338-01
 0.13316838+01 -0.13316838+01  0.32206559+03  0.35423273-01  0.11558771-01  0.32343270+03  0.24407459+03  0.38481832+07
 0.10211109+04  0.24159029+04  0.98133950+02  0.24446245+03
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CASE  1                        TRAJECTORY ID  -6 ACP                        SECTION  1                          PAGE   3
1  0.65057588+02  0.21939088+01  0.12997173+04  0.27499095+03  0.71291741+05  0.16144595+06 -0.10999999+01  0.13390731+01
2  0.65087843+02  0.54682697+02  0.72068995+02  0.59389688+02  0.50379999+02  0.69224998+02  0.95437635+03  0.57851574+03
3  0.40967423+03  0.89004305+03  0.83360579+02  0.19163038+03  0.             0.             0.49303482+03  0.10816734+04
4  0.82999956+02 -0.13299999+01  0.13299999+01  0.             0.             0.             0.             0.22471018+01
5  0.58755784+02  0.26155785+02  0.26191692+02  0.14544214+02  0.21725078+01 -0.20442496+03  0.12369485-00  0.29126441-00
6  0.87399361+01  0.19248333+02  0.15650000+03  0.51499999+02  0.79899999+02  0.16200000+03  0.             0.68849838+02

         12.0000        672.75        119.291      85.19849     1346.420      5.06080     -350.62   315.015       15.70
        279.4588   20910574.50      60073.410      90.04692   284590.184      1.35547      367.39     5.259     2079.28
         28.3075          9.38     326031.355      -0.00846     1577.279      0.10471     -121.85    -1.408   697758.97
 0.15523011+01  0.13554677+01  0.12148321+04  0.50271905+05 -0.57787219-03 -0.26809246-00 -0.96339288+00  0.90033109+02
-0.54620137-02  0.10335327-02  0.56863611+03 -0.41349121+05 -0.20267095-03  0.96339304+00 -0.26809236-00  0.90011612+02
-0.15233128-02  0.41959425-02  0.11697581+03  0.20910473+08  0.99999566+00  0.40364739-04 -0.61104666-03  0.46917941-01
 0.13566114+01 -0.13566114+01  0.38647471+03  0.43282606-01  0.14597178-01  0.38751461+03  0.24416491+03  0.46198201+07
 0.18840326+04  0.52779023+04  0.10128538+03  0.24479157+03
1  0.65488840+02  0.21947148+01  0.12999087+04  0.27496002+03  0.70215742+05  0.15928236+06 -0.10999599+01  0.13554677+01
2  0.65839376+02  0.54902270+02  0.72039987+02  0.55623973+02  0.50379999+02  0.69220997+02  0.95739096+03  0.58325690+03
3  0.40960335+03  0.89030539+03  0.83357312+02  0.19160271+03  0.             0.             0.49296066+03  0.10819080+04
4  0.82999956+02 -0.13299955+01  0.13299999+01  0.             0.             0.             0.             0.22468580+01
5  0.58821084+02  0.26341084+02  0.26220592+02  0.14438914+02  0.21735255+01 -0.20118890+03  0.12173693-00  0.28666473-00
6  0.87284332+01  0.19725435+02  0.15459999+03  0.51199999+02  0.78679999+02  0.16059999+03  0.             0.68848746+02

         14.0000        933.50        142.566      89.06286     1348.241      6.05848     -496.91   309.966       22.44
        279.4588   20910835.25      60378.495      90.05639   281435.469      1.37286      362.45     3.621     2060.81
         28.3075         13.48     326492.355      -0.00546     1577.439      0.12535      -36.41    -0.380   831632.29
 0.15533011+01  0.13728638+01  0.12143683+04  0.52701111+05 -0.74444061-03 -0.31950849-00 -0.94744801+00  0.90042653+02
-0.54620137-02  0.14820196-02  0.56865674+03 -0.40211829+05 -0.30955450-03  0.94744828+00 -0.31990833-00  0.90017736+02
-0.15233128-02  0.42034454-02  0.14033168+03  0.20910730+08  0.99999552+00  0.55170450-04 -0.80434415-03  0.56388348-01
 0.14518242+01 -0.14518242+01  0.45788200+03  0.51252149-01  0.18077135-01  0.45242507+03  0.24428512+03  0.53927648+07
 0.31588519+04  0.17295310+05  0.10401002+03  0.24525228+03
1  0.65558270+02  0.22060034+01  0.13001052+04  0.27492428+03  0.69231222+05  0.15711699+06 -0.22999995+01  0.13728638+01
2  0.65795912+02  0.55139266+02  0.72016955+02  0.59876570+02  0.50379999+02  0.69216997+02  0.96037193+03  0.58800108+03
3  0.40552635+03  0.89057877+03  0.81748619+02  0.19317566+03  0.             0.             0.49127501+03  0.10837544+04
4  0.17859955+03 -0.29349558+01  0.29349998+01  0.             0.             0.             0.             0.22465733+01
5  0.58908790+02  0.26548791+02  0.26249477+02  0.14311207+02  0.21746026+01 -0.19776348+03  0.11966445-00  0.28179590-00
6  0.87217503+01  0.19210067+02  0.15269999+03  0.50900000+02  0.77460000+02  0.15920000+03  0.             0.68847654+02

         16.0000       1242.75        167.144      89.06421     1350.737      7.10076     -676.52   308.412       30.60
        279.4588   20911144.50      60698.277      89.56919   278280.437      1.39086      312.74     2.261     2039.17
         28.3075         18.55     327027.824       0.48118     1577.584      0.14713      105.75     0.490   968651.05
 0.             0.13908570+01  0.12140238+04  0.55129403+05  0.70646671-02 -0.34547324-00 -0.93840186+00  0.89595219+02
 0.48117665-00  0.22405662-02  0.56874203+03 -0.39074473+05  0.25100127-02  0.93842842+00 -0.34546412-00  0.89856184+02
-0.15233129-02  0.38453833-02  0.16483378+03  0.20911035+08  0.99997173+00  0.85224954-04  0.74968308-02  0.43080661-00
 0.16251393+01 -0.16251393+01  0.51528723+03  0.61828090-01  0.24279356-01  0.51657419+03  0.24443831+03  0.61673739+07
 0.81144415+04  0.18523844+05  0.10541366+03  0.24577199+03
1  0.70415263+02  0.22164782+01  0.13003076+04  0.27486613+03  0.68250651+05  0.15494735+06 -0.32054838+01  0.13908570+01
2  0.65634824+02  0.55383213+02  0.71877122+02  0.60136632+02  0.50379599+02  0.69210997+02  0.96331743+03  0.59274463+03
3  0.40940755+03  0.85090005+03  0.80312443+02  0.19455368+03  0.             0.             0.48971999+03  0.10854537+04
4  0.25783870+03 -0.43639514+01  0.43635514+01  0.             0.             0.             0.             0.22461572+01
5  0.58899124+02  0.26779125+02  0.26292808+02  0.14160874+02  0.21760202+01 -0.19325560+03  0.11693703-00  0.27538845-00
6  0.87173304+01  0.19195995+02  0.15080000+03  0.50600000+02  0.76239599+02  0.15780000+03  0.             0.68846561+02

         18.0000       1602.25        193.000      89.36426     1355.216      8.17937     -891.90   328.830       40.40
        279.4588   20911504.00      61003.032      88.60771   275125.152      1.40936      195.49     1.050     2014.05
         28.3075         23.39     327641.535       0.48118     1577.707      0.17007      297.61     1.168  1108740.11
 0.             0.14093640+01  0.12149736+04  0.57558154+05  0.22842532-01 -0.34547244-00 -0.93815068+00  0.88691083+02
 0.48117665-00  0.32847724-02  0.56935742+03 -0.37936474+05  0.82619505-02  0.93842870+00 -0.34537365-00  0.89526616+02
-0.15233128-02  0.29535862-02  0.19045977+03  0.20911390+08  0.99970477+00  0.13839130-03  0.24290759-01  0.13922845+01

CASE  1                        TRAJECTORY ID  -6 ACP                        SECTION  1                          PAGE   4
 0.18050533+01 -0.18050533+01  0.57969311+03  0.89720237-01  0.48084574-01  0.58158787+03  0.24461675+03  0.69437288+07
 0.77578531+04  0.31328383+05  0.10856025+03  0.24633499+03
1  0.70853975+02  0.22213593+01  0.13035118+04  0.27478489+03  0.67271518+05  0.15277562+06 -0.35564515+01  0.14093640+01
2  0.65354185+02  0.55631392+02  0.71618330+02  0.60401338+02  0.50379999+02  0.69202997+02  0.96625517+03  0.59748454+03
3  0.40924639+03  0.89126549+03  0.75763692+02  0.19502120+03  0.             0.             0.48961007+03  0.10862867+04
4  0.28751612+03 -0.49018546+01  0.49018546+01  0.             0.             0.             0.             0.22456053+01
5  0.58793527+02  0.27033527+02  0.26350589+02  0.13986471+02  0.21777720+01 -0.18768483+03  0.11356655-00  0.26747027-00
6  0.87132651+01  0.19181585+02  0.14899999+03  0.50299999+02  0.75019999+02  0.15640000+03  0.             0.68845470+02

         20.0000       2014.50        229.143      89.36669     1361.931      9.28897    -1145.66    38.330       51.98
        279.4588   20911916.25      61349.964      87.64551   271965.629      1.42862       99.61     0.358     1985.28
         28.3076         26.28     328337.168       0.48118     1577.818      0.19421      547.86     1.718  1251829.77
 0.             0.14286165+01  0.12173510+04  0.59990267+05  0.38614752-01 -0.34547079-00 -0.93763454+00  0.87786988+02
 0.48117665-00  0.46678002-02  0.57059202+03 -0.36796632+05  0.14011637-01  0.93842928+00 -0.34518658-00  0.89197164+02
-0.15233128-02  0.21417762-02  0.21734744+03  0.20911798+08  0.99915577+00  0.19153596-03  0.41077836-01  0.23544927+01
 0.20419040+01 -0.20419040+01  0.64409967+03  0.13376743-00  0.88167429-01  0.64627533+03  0.24481991+03  0.77220447+07
 0.11442591+05  0.50436512+05  0.11050236+03  0.24657839+03
1  0.71215544+02  0.22264026+01  0.13037104+04  0.27469761+03  0.66294616+05  0.15060221+06 -0.40274192+01  0.14286165+01
2  0.69075246+02  0.55889822+02  0.71362125+02  0.60676967+02  0.50379999+02  0.69194998+02  0.96918968+03  0.60222801+03
3  0.40907873+03  0.89163165+03  0.75207494+02  0.19549011+03  0.             0.             0.48828622+03  0.10871217+04
4  0.31746773+03 -0.54466126+01  0.54466126+01  0.             0.             0.             0.             0.22450035+01
5  0.58713317+02  0.27313317+02  0.26408363+02  0.13786682+02  0.21795615+01 -0.18159419+03  0.11012353-00  0.25938169-00
6  0.87107617+01  0.19170006+02  0.14700000+03  0.50000000+02  0.73759999+02  0.15459999+03  0.             0.68844377+02

         22.0000       2482.25        248.554      98.60329     1370.971     10.42564    -1441.13    71.684       65.40
        279.4588   20912384.00      61734.545      86.68320   268812.848      1.44942       32.95     0.034     1953.55
         28.3076         26.40     329331.105       0.48118     1578.969      0.21959      607.26     1.500  1397806.86
 0.             0.14494226+01  0.12213269+04  0.62428728+05  0.54375679-01 -0.34546831-00 -0.93685357+00  0.86882965+02
 0.48117665-00  0.57486945-02  0.57244212+03 -0.35653695+05  0.19757331-01  0.93843017+00 -0.34490298-00  0.88867914+02
-0.15233128-02  0.15816835-02  0.24542124+03  0.20912261+08  0.99832490+00  0.24464393-03  0.57853323-01  0.33167941+01
 0.23469318+01 -0.23469318+01  0.70849617+03  0.18478592-00  0.13506866-00  0.71102788+03  0.24504329+03  0.85027812+07
 0.16255689+05  0.77572191+05  0.11227714+03  0.24767136+03
1  0.72545584+02  0.22350973+01  0.13015530+04  0.27460631+03  0.65318998+05  0.14842587+06 -0.43983870+01  0.14494226+01
2  0.68802927+02  0.56956690+02  0.71114378+02  0.61802435+02  0.50379999+02  0.69186997+02  0.97211937+03  0.60697702+03
3  0.40876471+03  0.89318831+03  0.78565089+02  0.19604122+03  0.             0.             0.48732980+03  0.10892295+04
4  0.35085483+03 -0.60772578+01  0.60772578+01  0.             0.             0.             0.             0.22443661+01
5  0.58653653+02  0.28433653+02  0.26466144+02  0.13566345+02  0.21850499+01 -0.16454129+03  0.99563976-01  0.23457441-00
6  0.87145912+01  0.19171405+02  0.14510000+03  0.49699999+02  0.72575599+02  0.15359999+03  0.             0.68843285+02

         24.0000       3008.00        278.380      87.57476     1382.416     11.58537    -1780.52    81.321       80.83
        279.4588   20912909.75      62164.060      85.72088   265653.773      1.47107       -6.63    -0.102     1917.91
         28.3076         29.90     330412.969       0.48118     1580.108      0.24634      667.79     1.323  1545726.38
 0.             0.14710704+01  0.12268186+04  0.64876612+05  0.70121266-01 -0.34546495-00 -0.93580800+00  0.85979047+02
 0.48117665-00  0.54422326-02  0.57488354+03 -0.34506468+05  0.25497451-01  0.93843136+00 -0.34452292-00  0.88538945+02
-0.15233128-02  0.12279098-02  0.27477184+03  0.20912781+08  0.99721240+00  0.29770022-03  0.74612489-01  0.42791171+01
 0.27321588+01 -0.27321588+01  0.77286233+03  0.23410914-00  0.17999673-00  0.77582859+03  0.24529091+03  0.92864067+07
 0.22501529+05  0.11653303+06  0.11391213+03  0.24844935+03
1  0.75801811+02  0.22438513+01  0.13031896+04  0.27450851+03  0.64345300+05  0.14624532+06 -0.47693547+01  0.14710704+01
2  0.68532484+02  0.58114760+02  0.70869489+02  0.62939847+02  0.50379999+02  0.69178997+02  0.97504177+03  0.61172555+03
3  0.40844365+03  0.89474557+03  0.77922049+02  0.19658647+03  0.             0.             0.48636574+03  0.10913324+04
4  0.38424197+03 -0.67079029+01  0.67079029+01  0.             0.             0.             0.             0.22436751+01
5  0.58621211+02  0.29581211+02  0.26523922+02  0.13318788+02  0.21905863+01 -0.14693533+03  0.88911818-01  0.20954959-00
6  0.87201402+01  0.19175765+02  0.14320000+03  0.49400000+02  0.71359999+02  0.15220000+03  0.             0.68842193+02

         26.0000       3593.75        309.748      86.43188     1396.334     12.76234    -2172.76    85.406       93.51
        279.4588   20913495.50      62626.366      84.75855   262492.816      1.49275       29.94    -0.012     1879.24
         28.3076         50.43     331384.215       0.48118     1580.430      0.27461      812.58     1.321  1696545.54
```

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CASE  1                          TRAJECTORY ID  -6 NCM                              SECTION  1                          PAGE   5
 0.              0.14927514+01  0.12338603+04  0.67337050+05  0.85847070-01 -0.34546083-00 -0.93449812+00  0.85075261+02
 0.48117665-00   0.63129324-02  0.57793844+03 -0.33353752+05  0.31230379-01  0.93843286+00 -0.34404650-00  0.88210340+02
-0.15233128-02   0.15307731-02  0.30541155+03  0.20913360+08  0.99581857+00  0.35068985-03  0.51350608-01  0.52414502+01
 0.22107853+01  -0.32107853+01  0.83717106+03  0.27583168-00  0.21709855-00  0.84065767+03  0.24556565+03  0.10073066+08
 0.30513483+05   0.16531175+06  0.11542678+03  0.24930580+03
1    0.76731087+02  0.22506564+01  0.13036156+04  0.27440439+03  0.63373512+05  0.14406057+06 -0.51403224+01  0.14927514+01
2    0.68254863+02  0.58595315+02  0.70617489+02  0.63439792+02  0.50379999+02  0.69170997+02  0.97795995+03  0.61648190+03
3    0.40822440+03  0.89539121+03  0.77222157+02  0.19718224+03  0.             0.             0.48544656+03  0.10925734+04
4    0.41622580+03 -0.73946771+01  0.73946771+01  0.             0.             0.             0.             0.22429363+01
5    0.58605741+02  0.30119742+02  0.26581695+02  0.13050257+02  0.21933462+01 -0.13815865+03  0.83601650-01  0.19707456-00
6    0.87225031+01  0.19172130+02  0.14129999+03  0.49100000+02  0.70139999+02  0.15080000+03  0.             0.68841101+02

                28.0000        4742.75        342.615      85.22868       1412.762       13.54838    -2616.76    87.539       118.43
               279.4591    20914144.50      63120.167      83.79620     259332.463        1.51451      111.45     0.135      1836.80
                28.3076          93.13     332261.000       0.48118       1575.930        0.30443      983.19     1.330   1848726.73
 0.              0.15145145+01  0.12425122+04  0.69813178+05  0.10154866-00 -0.34545584-00 -0.93292432+00  0.84171643+02
 0.48117665-00   0.73497671-02  0.58163049+03 -0.32194291+05  0.36954495-01  0.93843466+00 -0.34347385-00  0.87882181+02
-0.15233128-02   0.22074582-02  0.33729302+03  0.20914003+08  0.99414381+00  0.40359796-03  0.10806295-00  0.62037959+01
 0.37573722+01  -0.37573722+01  0.50139140+03  0.30734255-00  0.24377489-00  0.90549611+03  0.24586827+03  0.10862451+08
 0.40575465+05   0.24012133+06  0.11683574+03  0.25025214+03
1    0.76333845+02  0.22541713+01  0.13032275+04  0.27429263+03  0.62403413+05  0.14187553+06 -0.53999998+01  0.15145145+01
2    0.67970093+02  0.58438607+02  0.70358399+02  0.63302515+02  0.50379999+02  0.69162997+02  0.98087296+03  0.62124052+03
3    0.40810576+03  0.89512176+03  0.76662862+02  0.19762976+03  0.             0.             0.48476862+03  0.10927515+04
4    0.43699558+03 -0.75399956+01  0.75399996+01  0.             0.             0.             0.             0.22421385+01
5    0.58612417+02  0.30054418+02  0.26639476+02  0.12755581+02  0.21933237+01 -0.13823058+03  0.83645170-01  0.19717680-00
6    0.87217058+01  0.19160756+02  0.13940000+03  0.48799999+02  0.68520000+02  0.14940000+03  0.             0.68840010+02

                30.0000        4556.75        377.038      83.99469       1431.754       15.13747    -3117.14    88.802       140.67
               275.4593    20914858.50      63633.194      82.83385     256173.121        1.53697      238.71     0.308      1790.88
                28.3076         158.09     333215.402       0.48118       1575.416        0.33591     1181.87     1.347   2002626.25
 0.              0.15369658+01  0.12527313+04  0.72308156+05  0.11722159-00 -0.34545002-00 -0.93108702+00  0.83268217+02
 0.48117665-00   0.85738708-02  0.58557742+03 -0.31076794+05  0.42668187-01  0.93843677+00 -0.34280515-00  0.87554550+02
-0.15233128-02   0.33138425-02  0.37042297+03  0.20914710+08  0.99218859+00  0.45640953-03  0.12474481-00  0.71661438+01
 0.45080312+01  -0.45080312+01  0.56545074+03  0.32882025-00  0.26015568-00  0.97032755+03  0.24619552+03  0.11654662+08
 0.52035159+05   0.33341444+06  0.11816263+03  0.25126269+03
1    0.75952568+02  0.22540453+01  0.13028308+04  0.27417451+03  0.61434013+05  0.13969041+06 -0.53999998+01  0.15369658+01
2    0.67685881+02  0.58289164+02  0.70100694+02  0.63173128+02  0.50379999+02  0.69154999+02  0.98378308+03  0.62600052+03
3    0.40798102+03  0.89484982+03  0.76648290+02  0.19752661+03  0.             0.             0.48462930+03  0.10923764+04
4    0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.22412924+01
5    0.58643355+02  0.30013356+02  0.26697242+02  0.12436642+02  0.21933278+01 -0.13821750+03  0.83637258-01  0.19715821-00
6    0.87213375+01  0.19149735+02  0.13750000+03  0.48500000+02  0.67659999+02  0.14799999+03  0.             0.68838917+02

                32.0000        5739.00        412.671      82.74123       1453.416       16.32324    -3666.37    89.681       164.84
               279.4596    20915640.75      64180.953      81.87151     253014.814        1.56019      167.31     0.152      1741.92
                28.3076         247.82     334237.711       0.48118       1578.891        0.36861     1033.83     0.983   2151598.81
 0.              0.15601875+01  0.12646369+04  0.74825223+05  0.13286146-00 -0.34544337-00 -0.92898674+00  0.82365021+02
 0.48117665-00   0.78433268-02  0.59096391+03 -0.29849953+05  0.48369841-01  0.93843918+00 -0.34204058-00  0.87227530+02
-0.15233128-02   0.26544400-02  0.40481355+03  0.20915485+08  0.98995347+00  0.50510967-03  0.14139148-00  0.81284926+01
 0.53601076+01  -0.53601076+01  0.10294361+04  0.34269511-00  0.26846409-00  0.10351389+04  0.24654707+03  0.12449911+08
 0.68022963+05   0.45412809+06  0.11940735+03  0.25234059+03
1    0.75562780+02  0.22535393+01  0.13024292+04  0.27405208+03  0.60464898+05  0.13750604+06 -0.53999598+01  0.15601875+01
2    0.67402414+02  0.58148057+02  0.69844655+02  0.63052733+02  0.50379999+02  0.69144996+02  0.98669235+03  0.63074985+03
3    0.40785071+03  0.89457855+03  0.76633217+02  0.19741887+03  0.             0.             0.48448393+03  0.10919974+04
4    0.43699558+03 -0.79399596+01  0.79399596+01  0.             0.             0.             0.             0.22404043+01
5    0.58695348+02  0.29993349+02  0.26769482+02  0.12096649+02  0.21933634+01 -0.13810416+03  0.83568680-01  0.19699711-00
6    0.87215722+01  0.19139817+02  0.13559999+03  0.48199999+02  0.66480000+02  0.14659999+03  0.             0.68837825+02


CASE  1                          TRAJECTORY ID  -6 NCM                              SECTION  1                          PAGE   6

                34.0000        6591.50        449.999      81.42559       1478.207       17.49254    -4285.29    90.441       191.25
               279.4600    20916493.25      64766.882      80.54417     249857.568        1.58416      -85.62    -0.187      1689.62
                28.3076         365.35     335334.301       0.66367       1578.354        0.40312      799.10     0.618   2299406.38
 0.              0.15841617+01  0.12787183+04  0.77368142+05  0.15436347-00 -0.34543572-00 -0.92565960+00  0.81120116+02
 0.66366615+00   0.65269563-02  0.59666701+03 -0.28662466+05  0.56230083-01  0.93844195+00 -0.34082893-00  0.86776553+02
-0.15233128-02   0.22071964-03  0.44041310+03  0.20916331+08  0.98641255+00  0.56165735-03  0.16428508-00  0.94558266+01
 0.63739754+01  -0.63739754+01  0.10531908+04  0.35468043-00  0.27426386-00  0.10999195+04  0.24692290+03  0.13248419+08
 0.86062105+05   0.60779320+06  0.12058214+03  0.25349257+03
1    0.75189884+02  0.22538508+01  0.13020204+04  0.27392357+03  0.59496081+05  0.13532243+06 -0.53999998+01  0.15841617+01
2    0.67119328+02  0.58014618+02  0.69589877+02  0.62940673+02  0.50379999+02  0.69134997+02  0.98960073+03  0.63549764+03
3    0.40771439+03  0.89430602+03  0.76617575+02  0.19730599+03  0.             0.             0.48433197+03  0.10916120+04
4    0.43699558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.22394697+01
5    0.58770457+02  0.29996498+02  0.26841697+02  0.11733501+02  0.21934284+01 -0.13789756+03  0.83443680-01  0.19670344-00
6    0.87220468+01  0.19130199+02  0.13370000+03  0.47899999+02  0.65260000+02  0.14520000+03  0.             0.68836734+02

                36.0000        7517.00        489.603      80.02384       1506.442       18.63325    -4976.30    91.089       220.48
               279.4604    20917418.75      65387.957      79.21684     246701.412        1.60887       23.46    -0.058      1634.26
                28.3076         515.91     336499.203       0.66367       1577.804        0.44006      734.99     0.470   2448481.56
 0.              0.16088671+01  0.12952981+04  0.79941759+05  0.17578263-00 -0.34542693-00 -0.92183527+00  0.79875793+02
 0.66366615+00   0.61948018-02  0.60322471+03 -0.27462718+05  0.64060148-01  0.93844513+00 -0.33943551-00  0.86327108+02
-0.15233128-02   0.11849536-02  0.47716872+03  0.20917248+08  0.98234229+00  0.61400265-03  0.18709051-00  0.10783157+02
 0.75703547+01  -0.75703547+01  0.11567080+04  0.36640090-00  0.27948189-00  0.11646447+04  0.24732286+03  0.14050401+08
 0.10754655+06   0.80129615+06  0.12169451+03  0.25471282+03
1    0.74832213+02  0.22537775+01  0.13016045+04  0.27378978+03  0.58527574+05  0.13313960+06 -0.53999998+01  0.16088671+01
2    0.66836314+02  0.57887895+02  0.69336034+02  0.62835981+02  0.50379999+02  0.69124997+02  0.99250878+03  0.64024649+03
3    0.40757255+03  0.89403159+03  0.76601402+02  0.19718838+03  0.             0.             0.48417395+03  0.10912203+04
4    0.43699558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.22384518+01
5    0.58866972+02  0.30020572+02  0.26913921+02  0.11349026+02  0.21935195+01 -0.13760775+03  0.83268335-01  0.19629151-00
6    0.87224586+01  0.19120096+02  0.13180000+03  0.47600000+02  0.64040000+02  0.14380000+03  0.             0.68835641+02

                38.0000        8517.75        530.710      78.60049       1538.073       19.74020    -5722.40    91.593       251.39
               279.4610    20918419.50      66038.343      77.88951     243546.363        1.63436      -56.82    -0.135      1576.06
                28.3076         704.12     337728.734       0.66367       1577.243        0.47833     1126.33     0.669   2584945.94
 0.              0.16343632+01  0.13143148+04  0.82550953+05  0.19710746-00 -0.34541701-00 -0.91751581+00  0.78632136+02
 0.66366615+00   0.84460568-02  0.61068850+03 -0.26248982+05  0.71855833-01  0.93844872+00 -0.33786110-00  0.85879412+02
-0.15233128-02   0.28922317-03  0.51507686+03  0.20918240+08  0.97774483+00  0.66611748-03  0.20979553-00  0.12110493+02
 0.85719658+01  -0.85719658+01  0.12159395+04  0.37620538-00  0.28284144-00  0.12292877+04  0.24774650+03  0.14856050+08
 0.13341585+06   0.10423764+07  0.12275044+03  0.25599527+03
1    0.74491856+02  0.22538713+01  0.13011919+04  0.27364147+03  0.57559399+05  0.13095754+06 -0.53999998+01  0.16343632+01
2    0.66485535+02  0.57768847+02  0.69015361+02  0.62739667+02  0.50379999+02  0.69114996+02  0.99541610+03  0.64499499+03
3    0.40740455+03  0.89378735+03  0.76583037+02  0.19705844+03  0.             0.             0.48398758+03  0.10908458+04
4    0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.22374246+01
5    0.58515127+02  0.30065128+02  0.26986144+02  0.10944871+02  0.21938238+01 -0.13664022+03  0.82682954-01  0.19491629-00
6    0.87229595+01  0.19109878+02  0.12989999+03  0.47300000+02  0.62820000+02  0.14240000+03  0.             0.68834550+02

                40.0000        9595.75        573.251      77.11394       1573.379       20.80176    -6517.53    91.876       283.52
               279.4617    20919497.50      66708.133      76.56217     240392.459        1.66064     -350.25    -0.370      1515.35
                28.3076         935.66     339018.113       0.66367       1576.669        0.51786     1947.34     1.080   2706648.19
 0.              0.16606417+01  0.13359778+04  0.85200799+05  0.21832651-00 -0.34540596-00 -0.91270353+00  0.77389239+02
 0.66366615+00   0.13836561-01  0.61942984+03 -0.25015085+05  0.79612558-01  0.93845273+00 -0.33610653-00  0.85433679+02
-0.15233128-02  -0.27819091-02  0.55426766+03  0.20919309+08  0.97262266+00  0.71797390-03  0.23238797-00  0.13437827+02
 0.10592601+02  -0.10592601+02  0.12828348+04  0.38416792-00  0.28506859-00  0.12938115+04  0.24819311+03  0.15665539+08
 0.16252895+06   0.13376118+07  0.12375482+03  0.25733102+03
1    0.74167051+02  0.22544263+01  0.13007988+04  0.27345578+03  0.56591683+05  0.12877617+06 -0.53999998+01  0.16606417+01
2    0.65530821+02  0.57656562+02  0.68491676+02  0.62650815+02  0.50379999+02  0.69104999+02  0.99832121+03  0.64974740+03
3    0.40716934+03  0.89362949+03  0.76559102+02  0.19690067+03  0.             0.             0.48372844+03  0.10905302+04
```

```
CASE  1                          TRAJECTORY ID  -6 NOP                                 SECTION  1                                PAGE   7
4   0.43655558+03 -0.79399996+01  0.79399996+01  0.              0.              0.              0.              0.22361721+01
*   0.58776754+02  0.30126754+02  0.27058357+02  0.10523245+02  0.21947042+01 -0.13384039+03  0.80988967-01  0.19093666-00
6   0.87233800+01  0.19058719+02  0.12800000+03  0.47000000+02  0.61600000+02  0.14100000+03  0.              0.68033450+02

                 42.0000     10753.50      618.531     75.58546     1612.434      21.81015   -7405.76    92.023      318.49
                279.4626  20920655.25    67406.204     75.05235   237239.865       1.68740    -397.68    -0.372     1452.35
                 28.3075      1216.73   340321.852      0.75491     1575.924       0.56056    2343.52     1.161   2831108.91
 0.              0.16873995+01  0.13604214+04  0.87896695+05  0.24231729-00 -0.34539371-00 -0.90663388+00  0.75976690+02
 0.75491091+00  0.16465365-01  0.67549897+03 -0.23770370+05  0.88391268-01  0.93845718+00 -0.33389283-00  0.84928934+02
-0.15233128-02 -0.34473766-02  0.59407618+03  0.20920457+08  0.96616191+00  0.76952303-03  0.25793428-00  0.14947648+02
 0.12459340+02 -0.12459340+07  0.13453393+04  0.39123212-00  0.28654265-00  0.13581900+04  0.24866220+03  0.16478986+08
 0.15655560+06  0.16563395+07  0.12471237+03  0.25872268+03
1   0.73556060+02  0.22544114+01  0.13002338+04  0.27328072+03  0.55624451+05  0.12659563+06 -0.53999998+01  0.16873995+01
2   0.65422297+02  0.57420085+02  0.68014748+02  0.62438151+02  0.50379999+02  0.69092997+02  0.10012250+04  0.65448908+03
3   0.40696608+03  0.89324765+03  0.76535933+02  0.19674479+03  0.              0.              0.48350202+03  0.10900124+04
4   0.43699958+03 -0.75399556+01  0.79399996+01  0.              0.              0.              0.              0.22349209+01
5   0.58702253+02  0.30080254+02  0.27145030+02  0.10085744+02  0.21949115+01 -0.13318116+03  0.80590114-01  0.18999964-00
6   0.87219037+01  0.19083165+02  0.12610000+03  0.46699999+02  0.60380000+02  0.13959999+03  0.              0.68832365+02

                 44.0000     11592.50      666.382     74.03097     1655.222      22.75558   -8441.78    92.155      356.31
                279.4637  20921894.25    68128.314     73.54253   234088.773       1.71454    -197.41    -0.209     1387.24
                 28.3075      1553.12   341670.703      0.75491     1575.163       0.60662    2424.50     1.076   2960165.44
 0.              0.17145352+01  0.13877900+04  0.90644473+05  0.26613581-00 -0.34538018-00 -0.89993421+00  0.74565309+02
 0.75491091+00  0.17172463-01  0.64071878+03 -0.22500338+05  0.97108204-01  0.93846209+00 -0.33144860-00  0.84427326+02
-0.15233128-02 -0.15798183-02  0.63504102+03  0.20921686+08  0.95903029+00  0.82071078-03  0.28330148-00  0.16457469+02
 0.14611569+02 -0.14611569+02  0.14073984+04  0.39849069-00  0.28743577-00  0.14224084+04  0.24915271+03  0.17296500+08
 0.23744091+06  0.21300329+07  0.12562644+03  0.26016245+03
1   0.72540882+02  0.22543865+01  0.12996555+04  0.27309766+03  0.54657676+05  0.12441614+06 -0.53599998+01  0.17145352+01
2   0.64911267+02  0.57181342+02  0.67535754+02  0.67223551+02  0.50379999+02  0.69080997+02  0.10041282+04  0.65922975+03
3   0.40675940+03  0.89299617+03  0.76512334+02  0.19658533+03  0.              0.              0.48327173+03  0.10894815+04
4   0.43655558+03 -0.75399596+01  0.75399996+01  0.              0.              0.              0.              0.22336376+01
5   0.58642415+02  0.30048417+02  0.27231697+02  0.96335822+01  0.21951137+01 -0.13253833+03  0.80201179-01  0.18908593-00
6   0.87178498+01  0.19961711+02  0.12419999+03  0.46399999+02  0.55159599+02  0.13819999+03  0.              0.68831274+02

                 46.0000     13315.25      715.218     72.45426     1701.806      23.64457   -9547.70    92.292      394.27
                279.4649  20923217.25    68836.749     72.03271   230939.219       1.74217    -502.40    -0.376     1320.68
                 28.3075      1951.55   343051.008      0.75491     1574.393       0.65384    2337.17     0.914   3070727.41
 0.              0.17421729+01  0.14182663+04  0.93449923+05  0.28977754-00 -0.34536539-00 -0.89263919+00  0.73155362+02
 0.75491091+00  0.16729328-01  0.65308392+03 -0.21206734+05  0.10575771-00  0.93846746+00 -0.32877554-00  0.83929175+02
-0.15233128-02 -0.45533245-02  0.67686381+03  0.20922598+08  0.95123277+00  0.87150157-03  0.30847197-00  0.17967292+02
 0.17090194+02 -0.17090194+02  0.14689593+04  0.40636807-00  0.28793335-00  0.14864555+04  0.24966340+03  0.18118186+08
 0.28199155+06  0.26480142+07  0.12650076+03  0.26161644+03
1   0.72341678+02  0.22490468+01  0.12990711+04  0.27291187+03  0.53690838+05  0.12223824+06 -0.50235292+01  0.17421729+01
2   0.64398306+02  0.56943207+02  0.67055431+02  0.62010028+02  0.50379999+02  0.69069997+02  0.10070310+04  0.66397246+03
3   0.40654553+03  0.89252116+03  0.77279027+02  0.19563285+03  0.              0.              0.48382896+03  0.10881539+04
4   0.40688233+03 -0.71494112+01  0.71494112+01  0.              0.              0.              0.              0.22323322+01
5   0.58592606+02  0.30026606+02  0.27311142+02  0.91713924+01  0.21953224+01 -0.13187464+03  0.79799628-01  0.18814258-00
6   0.87117703+01  0.19935662+02  0.12230000+03  0.46100000+02  0.57540000+02  0.13680000+03  0.              0.68830181+02

                 48.0000     14723.00      767.721     70.86577     1752.158      24.46015  -10856.16    92.437      435.18
                279.4663  20924625.00    69536.663     70.52289   227791.223       1.76960    -167.79    -0.170     1252.56
                 28.3074      2418.38   344461.285      0.75491     1573.594       0.70518    2291.56     0.784   3179535.25
 0.              0.17655967+01  0.14519314+04  0.96315623+05  0.31321406-00 -0.34534936-00 -0.88466389+00  0.71746967+02
 0.75491091+00  0.16470158-01  0.66658501+03 -0.19887244+05  0.11433379-00  0.93847329+00 -0.32587551-00  0.83434797+02
-0.15233128-02 -0.17466580-02  0.71945713+03  0.20924394+08  0.94277476+00  0.92186016-03  0.33342827-00  0.19477113+02
 0.15943146+02 -0.15943146+02  0.15299681+04  0.41499285-00  0.28811049-00  0.15503262+04  0.25019229+03  0.18944070+08
 0.33405540+06  0.32638873+07  0.12733792+03  0.26309035+03

CASE  1                          TRAJECTORY ID  -6 ACP                                 SECTION  1                                PAGE   8
1   0.71725816+02  0.22417626+01  0.12984613+04  0.27272242+03  0.52722334+05  0.12006357+06 -0.43960782+01  0.17695967+01
2   0.63879316+02  0.56690616+02  0.66568822+02  0.61781871+02  0.50379999+02  0.69059997+02  0.10099384+04  0.66871442+03
3   0.40633883+03  0.89212255+03  0.78330772+02  0.19439165+03  0.              0.              0.48466960+03  0.10865141+04
4   0.35064704+03 -0.60733330+01  0.60733330+01  0.              0.              0.              0.              0.22309991+01
5   0.58553662+02  0.30015663+02  0.27383365+02  0.86983354+01  0.21954821+01 -0.13136667+03  0.79492288-01  0.18742055-00
6   0.86997046+01  0.18957145+02  0.12040000+03  0.45800000+02  0.56720000+02  0.13540000+03  0.              0.68829089+02

                 50.0000     16217.75      822.201     69.29303     1806.028      25.20961  -12385.61    92.584      476.81
                279.4680  20926119.75    70250.835     69.01306   224644.861       1.79731      10.40    -0.078     1183.36
                 28.3073      2960.22   345893.785      0.75491     1572.782       0.75903    1920.83     0.553   3275525.66
 0.              0.17973121+01  0.14886037+04  0.99259628+05  0.33643309-00 -0.34533207-00 -0.87610384+00  0.70340293+02
 0.75491091+00  0.13859400-01  0.68113242+03 -0.18539694+05  0.12283047-00  0.93847958+00 -0.32275052-00  0.82944512+02
-0.15233128-02 -0.26434061-03  0.76279474+03  0.20925876+08  0.93366212+00  0.97175158-03  0.35815305-00  0.20986935+02
 0.23724857+02 -0.23248570+02  0.15573794+04  0.42465112-00  0.28820515-00  0.16140527+04  0.25073801+03  0.19774204+08
 0.35203518+06  0.39897481+07  0.12814056+03  0.26459119+03
1   0.71131462+02  0.22349403+01  0.12978414+04  0.27253064+03  0.51752193+05  0.11789216+06 -0.37686273+01  0.17973121+01
2   0.63356853+02  0.56433777+02  0.66779085+02  0.61549719+02  0.50379999+02  0.69049998+02  0.10128514+04  0.67345289+03
3   0.40612580+03  0.89171557+03  0.75914089+02  0.19321565+03  0.              0.              0.48544078+03  0.10849312+04
4   0.25645018+03 -0.50645095+01  0.50645095+01  0.              0.              0.              0.              0.22296476+01
5   0.58522275+02  0.30012207+02  0.27455581+02  0.82177922+01  0.21956318+01 -0.13089082+03  0.79204386-01  0.18674419-00
6   0.86841106+01  0.18951564+02  0.11869999+03  0.45500000+02  0.55500000+02  0.13400000+03  0.              0.68827999+02

                 52.0000     17800.25      875.466     67.72503     1863.504      25.88627  -14371.84    92.780      518.16
                279.4700  20927702.50    70974.012     67.50324   221500.354       1.82335     376.54     0.069     1113.57
                 28.3073      3583.59   347271.613      0.75491     1571.697       0.81571     547.01     0.067   3352792.09
 0.              0.18233522+01  0.15286332+04  0.10227632+06  0.35941852-00 -0.34531356-00 -0.86693498+00  0.68935509+02
 0.75491051+00  0.51281332-02  0.69654691+03 -0.17162120+05  0.13124187-00  0.93848632+00 -0.31940275-00  0.82458636+02
-0.15233128-02  0.26371879-02  0.80669055+03  0.20927446+08  0.92390117+00  0.10211411-02  0.38262914-00  0.22496760+02
 0.27095547+02 -0.27095547+02  0.16521508+04  0.43654851-00  0.28862023-00  0.16776775+04  0.25130001+03  0.20608598+08
 0.45570813+06  0.48363506+07  0.12891073+03  0.26611084+03
1   0.70323031+02  0.22278399+01  0.12965524+04  0.27233424+03  0.50780582+05  0.11557240+06 -0.31411763+01  0.18233522+01
2   0.62821133+02  0.56131707+02  0.65574113+02  0.61270729+02  0.50379999+02  0.69035997+02  0.10157691+04  0.67817163+03
3   0.40596925+03  0.89098313+03  0.80203115+02  0.19213112+03  0.              0.              0.48617237+03  0.10831142+04
4   0.24629410+03 -0.41547056+01  0.41547056+01  0.              0.              0.              0.              0.22281261+01
5   0.58494842+02  0.30012843+02  0.27556697+02  0.77331559+01  0.21546733+01 -0.13353867+03  0.81048430-01  0.19107635-00
6   0.86555685+01  0.18878511+02  0.11660000+03  0.45199999+02  0.54280000+02  0.13259999+03  0.              0.68808107+02

                 54.0000     19472.00      935.538     66.18648     1924.152      26.49414  -17132.10    93.033      559.95
                279.4722  20929374.25    71696.631     65.99342   218358.078       1.84648     941.63     0.237     1043.75
                 28.3072      4295.48   348631.898      0.75491     1570.525       0.87573     326.23    -0.008   3417156.81
 0.              0.18464838+01  0.15718045+04  0.10537625+06  0.38215439-00 -0.34529383-00 -0.85716368+00  0.67532804+02
 0.75491091+00  0.46532481-02  0.71252568+03 -0.15753209+05  0.13956214-00  0.93849351+00 -0.31583451-00  0.81977487+02
-0.15233128-02  0.87675132-02  0.85102776+03  0.20929103+08  0.91349872+00  0.10699946-02  0.40683956-00  0.24006582+02
 0.31671375+02 -0.31671375+02  0.17252445+04  0.45086088-00  0.29014969-00  0.17413668+04  0.25187640+03  0.21447176+08
 0.52605532+06  0.58173779+07  0.12965036+03  0.26763545+03
1   0.69357171+02  0.22205503+01  0.12959836+04  0.27213459+03  0.49807503+05  0.11355972+06 -0.25137254+01  0.18464838+01
2   0.62266560+02  0.55761747+02  0.65046853+02  0.60921223+02  0.50379999+02  0.69021597+02  0.10186912+04  0.68288415+03
3   0.40581841+03  0.89016221+03  0.81090670+02  0.19104351+03  0.              0.              0.48690508+03  0.10812061+04
4   0.15605807+03 -0.32449018+01  0.32449018+01  0.              0.              0.              0.              0.22265866+01
5   0.58467762+02  0.30013764+02  0.27657810+02  0.72482349+01  0.21934652+01 -0.13778070+03  0.83372979-01  0.19653735-00
6   0.86087144+01  0.18766557+02  0.11470000+03  0.44900000+02  0.53060000+02  0.13119999+03  0.              0.68788218+02

                 56.0000     21233.50     1000.468     64.67311     1987.375      27.01500  -26824.29    93.187      599.19
                279.4747  20931135.75    72433.247     64.48359   215218.627       1.83727    1211.31     0.287      974.14
                 28.3070      5101.43   349989.949      0.75491     1568.532       0.93761    1602.85     0.302   3462995.13
 0.              0.18377686+01  0.16174667+04  0.10856517+06  0.40462490-00 -0.34527291-00 -0.84679672+00  0.66132374+02
 0.75491091+00  0.13658422-01  0.72989410+03 -0.14311014+05  0.14778550-00  0.93850114+00 -0.31204828-00  0.81501383+02
-0.15233128-02  0.10943988-01  0.89483653+03  0.20930849+08  0.90246198+00  0.11182781-02  0.43076748-00  0.25516406+02
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CASE  1                       TRAJECTORY ID  -6 ACP                      SECTION  1                        PAGE   9
 0.38027746+02 -0.38027746+02  0.17676391+04  0.46360136-00  0.29301119-00  0.18061214+04  0.25246712+03  0.22289767+08
 0.55546919+06  0.69429316+07  0.13036121+03  0.26919600+03
1   0.67090015+02  0.22142795+01  0.12942144+04  0.27190720+03  0.48833150+05  0.11139943+06 -0.22066665+01  0.18372686+01
2   0.61552910+02  0.54739913+02  0.64322323+02  0.59890775+02  0.50379999+02  0.69007997+02  0.10216171+04  0.68758886+03
3   0.40977596+03  0.88848444+03  0.81508730+02  0.19039846+03  0.             0.             0.48723870+03  0.10788829+04
4   0.17153332+03 -0.27956665+01  0.27996665+01  0.             0.             0.             0.             0.22249036+01
5   0.58439137+02  0.30013138+02  0.27758819+02  0.67648606+01  0.21898045+01 -0.14942137+03  0.90415952-01  0.21308321-00
6   0.84087695+01  0.18323921+02  0.11279999+03  0.44595999+02  0.51840000+02  0.12980000+03  0.                0.68768328+02

              58.0000      23081.25      1059.318      63.15822      2052.121      27.41957  -34180.30    93.280       633.22
             279.4775   20932983.75     73190.542      62.57377    212083.674       1.83909     670.76     0.110       905.24
              28.3065          0.99    351033.223       0.75491      1566.823       0.99965    1480.91     0.205   3493154.94
 0.              0.18390942+01  0.16654646+04  0.11184761+06  0.42681447-00 -0.34525079-00 -0.83584130+00  0.64734431+02
 0.75491091+00  0.11470594-01  0.74847855+03 -0.12832803+05  0.15590624-00  0.93850920+00 -0.30804670-00  0.81030638+02
-0.15233128-02  0.53148120-02  0.53659435+03  0.20932681+08  0.89079859+00  0.11659579-02  0.45439629-00  0.27026229+02
 0.47435940+02 -0.47435940+02  0.18252718+04  0.47525831-00  0.29565501-00  0.18731830+04  0.25306999+03  0.23136196+08
 0.67077563+06  0.82135059+07  0.13104329+03  0.27075390+03
1   0.65185733+02  0.22117852+01  0.12927226+04  0.27169053+03  0.47858798+05  0.10924365+06 -0.22200000+01  0.18390942+01
2   0.60852775+02  0.53939576+02  0.63664768+02  0.59092145+02  0.50379999+02  0.68993998+02  0.10245429+04  0.69228544+03
3   0.40562120+03  0.88710143+03  0.81464026+02  0.19022651+03  0.             0.             0.48708522+03  0.10773279+04
4   0.17259555+03 -0.28189595+01  0.28189595+01  0.             0.             0.             0.             0.22232788+01
5   0.58405640+02  0.30007641+02  0.27860031+02  0.62863576+01  0.21869793+01 -0.15840560+03  0.95851693-01  0.22585325-00
6   0.82602955+01  0.17953852+02  0.11090000+03  0.44300000+02  0.50620000+02  0.12840000+03  0.                0.68748438+02

              60.0000      25012.75      1123.427      61.65684      2115.374      27.74867  -38335.88    93.438       667.99
             279.4806   20934915.50     73938.672      61.46394    208951.408       1.85648    1425.23     0.304       837.50
              28.3067          1.15    352313.844       0.75491      1565.506       1.06731     -95.87    -0.204   3511444.78
 0.              0.18564800+01  0.17165922+04  0.11522917+06  0.44870767-00 -0.34522750-00 -0.82430502+00  0.63339198+02
 0.75491091+00 -0.18035987-02  0.76750426+03 -0.11316836+05  0.16391873-00  0.93851770+00 -0.30383254-00  0.80565570+02
-0.15233128-02  0.13030501-01  0.57774910+03  0.20534595+08  0.87851667+00  0.12130012-02  0.47772958-00  0.28536054+02
 0.58563627+02 -0.58563627+02  0.18821296+04  0.49140978-00  0.29894900-00  0.15411846+04  0.25368287+03  0.23986668+08
 0.75043654+06  0.56350653+07  0.13169757+03  0.27227754+03
1   0.63582887+02  0.22172558+01  0.12916070+04  0.27148875+03  0.46884802+05  0.10709020+06 -0.22333332+01  0.18564800+01
2   0.60304225+02  0.53443266+02  0.63096322+02  0.58612715+02  0.50379999+02  0.68979998+02  0.10274683+04  0.69698013+03
3   0.40548451+03  0.88612254+03  0.81421795+02  0.19006696+03  0.             0.             0.48690631+03  0.10761894+04
4   0.17266666+03 -0.28383332+01  0.28383332+01  0.             0.             0.             0.             0.22217362+01
5   0.58364058+02  0.29994059+02  0.27961136+02  0.58159403+01  0.21853007+01 -0.16374350+03  0.99081293-01  0.23344046-00
6   0.81805278+01  0.17812041+02  0.10930000+03  0.44000000+02  0.49400000+02  0.12700000+03  0.                0.68728548+02

              62.0000      27027.75      1186.952      60.17468      2185.546      28.01554  -40480.05    93.604       698.60
             279.4841   20936930.50     74670.906      59.95412    205821.533       1.88416    1142.40     0.199       771.37
              28.3065          1.34    353611.801       0.75491      1564.442       1.13711     725.51    -0.066   3521438.53
 0.              0.18841606+01  0.17709214+04  0.11871612+06  0.47028530-00 -0.34520306-00 -0.81219590+00  0.61946920+02
 0.75491091+00  0.33309229-02  0.78740356+03 -0.97622016+04  0.17181740-00  0.93852662+00 -0.29940873-00  0.80106495+02
-0.15233128-02  0.11768209-01  0.10187563+04  0.20936592+08  0.86562476+00  0.12593751-02  0.50069118+00  0.30045878+02
 0.70815410+02 -0.70815410+02  0.19381758+04  0.50922447+00  0.30289149-00  0.20095054+04  0.25430388+03  0.24841204+08
 0.82920072+06  0.11214387+08  0.13232563+03  0.27376045+03
1   0.63171306+02  0.22093546+01  0.12907363+04  0.27129780+03  0.45911177+05  0.10453878+06 -0.22466666+01  0.18841606+01
2   0.59759425+02  0.53138575+02  0.62594206+02  0.58330492+02  0.50379999+02  0.69963996+02  0.10303929+04  0.70166648+03
3   0.40533093+03  0.88540338+03  0.81381265+02  0.18991653+03  0.             0.             0.48671219+03  0.10753199+04
4   0.17473333+03 -0.28576665+01  0.28576665+01  0.             0.             0.             0.             0.22202571+01
5   0.58311283+02  0.29969253+02  0.28076702+02  0.53567452+01  0.21843535+01 -0.16675572+03  0.10090377-00  0.23772196-00
6   0.81476030+01  0.17721027+02  0.10710000+03  0.43699999+02  0.48180000+02  0.12560000+03  0.                0.68708657+02

              64.0000      25126.25      1252.604      58.69523      2263.253      28.22093  -41553.50    93.731       727.03
             279.4875   20939029.25     75384.541      58.44430    202693.627       1.91782     706.95     0.056       706.99
              28.3063          1.54    354900.414       0.75491      1563.522       1.21152     548.97    -0.126   3525654.09

CASE  1                       TRAJECTORY ID  -6 ACP                      SECTION  1                        PAGE  10
 0.              0.19178244+01  0.18288559+04  0.12231524+06  0.49154440-00 -0.34517748-00 -0.79952233+00  0.60557857+02
 0.75491091+00  0.92167305-03  0.80885901+03 -0.91661508+04  0.17959677-00  0.93853594+00 -0.29477832-00  0.79653724+02
-0.15233128-02  0.63580035-02  0.10558809+04  0.20938671+08  0.85213178+00  0.13050474-02  0.52332512+00  0.31555703+02
 0.83762300+02 -0.83762300+02  0.19933773+04  0.52456970+00  0.30598769-00  0.20776645+04  0.25493120+03  0.25699774+08
 0.51068021+06  0.12554479+08  0.13292515+03  0.27520230+03
1   0.62588123+02  0.22087525+01  0.12899978+04  0.27111404+03  0.44937950+05  0.10278892+06 -0.22599999+01  0.19178244+01
2   0.59236546+02  0.52938043+02  0.62101078+02  0.58159789+02  0.50379999+02  0.68947998+02  0.10333171+04  0.70635156+03
3   0.40516886+03  0.88482903+03  0.81341779+02  0.18977226+03  0.             0.             0.48651064+03  0.10746013+04
4   0.17580000+03 -0.28769999+01  0.28769999+01  0.             0.             0.             0.             0.22188238+01
5   0.58246335+02  0.29932336+02  0.28192249+02  0.49096633+01  0.21838091+01 -0.16848681+03  0.10195114-00  0.24018251-00
6   0.81254920+01  0.17674951+02  0.10520000+03  0.43400000+02  0.46560000+02  0.12419959+03  0.                0.68688768+02

              66.0000      31308.50      1326.156      57.23058      2340.670      28.37514  -41710.71    93.853       760.19
             279.4922   20941211.75     76083.671      56.93447    199567.307       1.95720    1504.05     0.237       644.46
              28.3061          1.77    356223.941       0.75491      1562.968       1.29751     651.31    -0.118   3547542.38
 0.              0.19571961+01  0.18905595+04  0.12603413+06  0.51245817+00 -0.34515078-00 -0.78629313+00  0.59172292+02
 0.75491091+00  0.90547169-03  0.83158700+03 -0.65259194+04  0.18725143-00  0.93854567+00 -0.28994457-00  0.79207575+02
-0.15233128-02  0.16231241-01  0.11012863+04  0.20940831+08  0.83804712+00  0.13499865-02  0.54559567+00  0.33065527+02
 0.97101173+02 -0.97101173+02  0.20477007+04  0.54075505+00  0.30895019-00  0.21453426+04  0.25556268+03  0.26562343+08
 0.10081249+07  0.14870239+08  0.13350974+03  0.27659343+03
1   0.62600096+02  0.22089764+01  0.12896742+04  0.27095415+03  0.43565129+05  0.10064024+06 -0.22733332+01  0.19571961+01
2   0.58851410+02  0.53017443+02  0.61762431+02  0.58274128+02  0.50379999+02  0.68931997+02  0.10362399+04  0.71103620+03
3   0.40500408+03  0.88460?21+03  0.81306268+02  0.18964789+03  0.             0.             0.48631035+03  0.10742480+04
4   0.17686666+03 -0.28963332+01  0.28963332+01  0.             0.             0.             0.             0.22175234+01
5   0.58287060+02  0.30067061+02  0.28307811+02  0.44754378+01  0.21841330+01 -0.16745684+03  0.10132797-00  0.23871852-00
6   0.81265665+01  0.17667866+02  0.10330000+03  0.43099999+02  0.45740000+02  0.12280000+03  0.                0.68668877+02

              68.0000      33575.75      1400.912      55.80278      2422.071      28.49581  -39834.89    93.992       785.52
             279.4968   20943479.25     76766.704      55.42465    196441.437       2.00840    1200.45     0.178       584.10
              28.3058          2.01    357605.949       0.75491      1562.924       1.38544    -341.46    -0.306   3531498.69
 0.              0.20083950+01  0.19562599+04  0.12988019+06  0.53301612+00 -0.34512298-00 -0.77251749+00  0.57790530+02
 0.75491091+00 -0.51774125-02  0.85530801+03 -0.48391909+04  0.19477608-00  0.93855581+00 -0.28491080-00  0.78768355+02
-0.15233128-02  0.12575159-01  0.11436447+04  0.20943076+08  0.82338056+00  0.13941612-02  0.56748739+00  0.34575352+02
 0.11031793+03 -0.11031793+03  0.21011294+04  0.55919257+00  0.31266904-00  0.22120064+04  0.25619624+03  0.27429035+08
 0.11004426+07  0.16578672+08  0.13406906+03  0.27792209+03
1   0.63451707+02  0.22102661+01  0.12896511+04  0.27082325+03  0.42592716+05  0.98491607+05 -0.22866666+01  0.20083950+01
2   0.58628771+02  0.53488071+02  0.61690246+02  0.58790291+02  0.50379999+02  0.68915997+02  0.10391609+04  0.71572279+03
3   0.40482567+03  0.88486552+03  0.81275590+02  0.18954766+03  0.             0.             0.48610125+03  0.10744131+04
4   0.17793332+03 -0.29156665+01  0.29156665+01  0.             0.             0.             0.             0.22163844+01
5   0.58431263+02  0.30371264+02  0.28423362+02  0.40562353+01  0.21857526+01 -0.16230639+03  0.98211793-01  0.23139777-00
6   0.81694456+01  0.17750444+02  0.10140000+03  0.42800000+02  0.44520000+02  0.12140000+03  0.                0.68648987+02

              70.0000      35530.50      1480.807      54.38238      2508.065      28.56561  -38321.59    94.115       811.24
             279.5019   20945834.00     77422.139      53.91482    193315.674       2.05896    1119.57     0.162       526.01
              28.3055          2.26    358930.199       0.75491      1562.856       1.48354     761.42    -0.085   3524121.28
 0.              0.20589593+01  0.20264850+04  0.13386223+06  0.55320395+00 -0.34509408-00 -0.75820495+00  0.56412903+02
 0.75491091+00  0.12959875-02  0.88071958+03 -0.31035498+04  0.20216548-00  0.93856636+00 -0.27969051-00  0.78336380+02
-0.15233128-02  0.10687089-01  0.11866254+04  0.20945407+08  0.80814227+00  0.14375407-02  0.58898507+00  0.36085177+02
 0.12322298+03 -0.12322298+03  0.21536417+04  0.57423846+00  0.31443234-00  0.22774389+04  0.25683087+03  0.28299768+08
 0.12012969+07  0.15280358+08  0.13460894+03  0.27920161+03
1   0.64237062+02  0.22114730+01  0.12897518+04  0.27069463+03  0.42020716+05  0.96342658+05 -0.23000000+01  0.20589593+01
2   0.58354802+02  0.53927395+02  0.61425982+02  0.59274559+02  0.50379999+02  0.68899998+02  0.10420810+04  0.72041092+03
3   0.40465235+03  0.88509540+03  0.81245019+02  0.18944962+03  0.             0.             0.48589740+03  0.10745490+04
4   0.17855555+03 -0.29349999+01  0.29349999+01  0.             0.             0.             0.             0.22152686+01
5   0.58559640+02  0.30659640+02  0.28538910+02  0.36528596+01  0.21872681+01 -0.15748718+03  0.95296015-01  0.22454781-00
6   0.82011177+01  0.17808236+02  0.95500000+02  0.42500000+02  0.43300000+02  0.12000000+03  0.                0.68629099+02
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CASE  1                     TRAJECTORY ID  -6 NOM                        SECTION  1                         PAGE  11
               72.0000      38373.25      1561.417     52.96220     2598.858     28.59133   -36455.38    94.185       829.89
              279.5975   20948277.00     78046.988     52.40590   190190.283      2.11220      174.09    -0.041       470.56
               28.3051          2.52    360129.691      0.75491     1562.551      1.59665     1155.19     0.000   3501156.59
0.               0.21122009+01  0.21013542+04  0.12798925+06  0.57300766+00 -0.34506413-00 -0.74336547+00  0.55039772+02
0.75451051+00    0.84041157-02  0.90853205+03 -0.13146933+04  0.20941450-00  0.93857729+00 -0.27425735-00  0.77911956+02
-0.15233128-02  -0.32497154-02  0.12299481+04  0.20947823+08  0.79734285+00  0.14900950-02  0.61007378+00  0.37599002+02
0.13576716+03   -0.13576716+03  0.22052097+04  0.58399129+00  0.31475711-00  0.23415598+04  0.25746521+03  0.29174306+08
0.12558009+07    0.21776471+08  0.13513023+03  0.28942370+03
1  0.65606070+02  0.22116717+01  0.12895716+04  0.27056951+03  0.41049045+05  0.94193761+05 -0.23133332+01  0.21122009+01
2  0.58163252+02  0.54396172+02  0.61257299+02  0.59790608+02  0.50379999+02  0.68881997+02  0.10450007+04  0.72509227+03
3  0.40455251+03  0.88501512+03  0.81219769+02  0.18934974+03  0.             0.             0.49577228+03  0.10743680+04
4  0.18006666+03 -0.29543332+01  0.29543332+01  0.             0.             0.             0.             0.22139884+01
5  0.58669745+02  0.30929746+02  0.28668922+02  0.32677529+01  0.21876100+01 -0.15640005+03  0.94638272-01  0.22300299-00
6  0.82347120+01  0.17869800+02  0.97600000+02  0.42200000+02  0.42080000+02  0.11860000+03  0.             0.68583337+02

               74.0000      40904.75      1648.978     51.56005     2694.345     28.57048   -34550.56    94.238       847.96
              279.5136   20950809.00     78641.707     51.07766   187065.452      2.16696      579.83     0.052       417.72
               28.3047          2.88    361274.609      0.66367     1562.273      1.70203       13.92    -0.204   3476019.63
0.               0.21469565+01  0.21809558+04  0.14227092+06  0.59005174+00 -0.34503320-00 -0.72989248+00  0.53836481+02
0.66366615+00    0.45354351-02  0.93827744+03  0.53188672+03  0.21566138-00  0.93858857+00 -0.26533340-00  0.77545667+02
-0.15233128-02  -0.33144747-02  0.12737357+04  0.20950326+08  0.77799823+00  0.15218472-02  0.62826409+00  0.38922340+02
0.14789676+03   -0.14789676+03  0.22558041+04  0.58858154+00  0.31484151-00  0.24042854+04  0.25809735+03  0.30052404+08
0.13582663+07    0.24473804+08  0.13563430+03  0.28158706+03
1  0.65502765+02  0.22115118+01  0.12894138+04  0.27044883+03  0.40077620+05  0.92045216+05 -0.23266666+01  0.21669565+01
2  0.57528826+02  0.54972048+02  0.61087528+02  0.60315085+02  0.50379599+02  0.68863997+02  0.10479188+04  0.72977665+03
3  0.40445434+03  0.88455552+03  0.81194560+02  0.18925387+03  0.             0.             0.48564529+03  0.10742134+04
4  0.18113332+03 -0.29736666+01  0.29736666+01  0.             0.             0.             0.             0.22127445+01
5  0.58761657+02  0.31181698+02  0.28708919+02  0.29008018+01  0.21879940+01 -0.15517864+03  0.93899278-01  0.22126649-00
6  0.82651485+01  0.17923731+02  0.95700000+02  0.41500000+02  0.40860000+02  0.11719999+03  0.             0.68537577+02

               76.0000      43527.00      1742.210     50.20248     2794.408     28.52366   -32109.55    94.309       855.36
              279.5202   20953431.75     79201.205     49.75032   183941.162      2.22603     1009.20     0.139       368.02
               28.3043          3.25    362367.082      0.66367     1562.087      1.82125     -573.44    -0.295   3390534.97
0.               0.22260252+01  0.22651538+04  0.14671632+06  0.60685915+00 -0.34500137-00 -0.71602735+00  0.52637256+02
0.66366615+00    0.73656415-04  0.96927083+03  0.24392085+04  0.22179251-00  0.93860019+00 -0.26426606-00  0.77185661+02
-0.15233128-02   0.19475307-02  0.13184492+04  0.20952518+08  0.76323610+00  0.15628257-02  0.64611726+00  0.40249677+02
0.15546876+03   -0.15546876+03  0.23054191+04  0.59403350+00  0.31488585-00  0.24654819+04  0.25872575+03  0.30933900+08
0.14502170+07    0.27365162+08  0.13612226+03  0.28267822+03
1  0.66871812+02  0.22123560+01  0.12893418+04  0.27033553+03  0.39106444+05  0.89896882+05 -0.23399999+01  0.22260252+01
2  0.57702117+02  0.55624663+02  0.60930566+02  0.60900144+02  0.50379599+02  0.68845998+02  0.10508361+04  0.73446182+03
3  0.40435340+03  0.88498843+03  0.81171045+02  0.18916448+03  0.             0.             0.48552445+03  0.10741529+04
4  0.18219999+03 -0.29929999+01  0.29929999+01  0.             0.             0.             0.             0.22115547+01
5  0.58831827+02  0.31411828+02  0.28928917+02  0.25556710+01  0.21886123+01 -0.15321261+03  0.92709767-01  0.21847200-00
6  0.83025036+01  0.17951979+02  0.93800001+02  0.41595999+02  0.39640000+02  0.11579999+03  0.             0.68491817+02

               78.0000      46242.50      1842.989     48.90045     2855.109     28.45976   -29423.47    94.397       858.73
              279.5273   20956147.50     79723.048     48.42298   180817.123      2.28791     1623.19     0.256       321.63
               28.3038          3.61    363395.484      0.66367     1561.959      1.95196    -1265.59    -0.406   3289623.75
0.               0.22879090+01  0.23538345+04  0.15133456+06  0.62330088+00 -0.34496865-00 -0.70177755+00  0.51442415+02
0.66366615+00   -0.12893341-01  0.10013915+04  0.44097241+04  0.22780462-00  0.93861213+00 -0.25905806-00  0.76832145+02
-0.15233128-02   0.14220897-01  0.13643718+04  0.20955601+08  0.74806437+00  0.16030081-02  0.66362367+00  0.41577015+02
0.17031970+03   -0.17031970+03  0.23540629+04  0.60236035+00  0.31570697-00  0.25249845+04  0.25934887+03  0.31818602+08
0.15826365+07    0.30436116+08  0.13655527+03  0.28369380+03
1  0.67504119+02  0.22129115+01  0.12893207+04  0.27022863+03  0.38135519+05  0.87748586+05 -0.23533332+01  0.22879090+01
2  0.57476202+02  0.55564784+02  0.60777723+02  0.61515204+02  0.50379999+02  0.68827997+02  0.10537535+04  0.73914919+03
3  0.40425782+03  0.88506790+03  0.81147825+02  0.18908081+03  0.             0.             0.48540065+03  0.10741486+04
CASE  1                     TRAJECTORY ID  -6 NOM                        SECTION  1                         PAGE  12
4  0.18326666+03 -0.30123332+01  0.30123332+01  0.             0.             0.             0.             0.22104153+01
5  0.58878566+02  0.31618566+02  0.29558921+02  0.22335326+01  0.21893542+01 -0.15085356+03  0.91282468-01  0.21511889-00
6  0.83401325+01  0.18060166+02  0.91900000+02  0.41300000+02  0.38420000+02  0.11440000+03  0.             0.68446057+02

               80.0000      49053.25      1943.523     47.63873     3008.746     28.37162   -26438.48    94.490       835.13
              279.5351   20958558.75     80203.681     47.09565   177693.305      2.35304     1038.67     0.141       278.87
               28.3033          4.03    364354.477      0.66367     1561.898      2.06725     -235.64    -0.221   3055794.59
0.               0.23530380+01  0.24474187+04  0.15613495+06  0.63940811+00 -0.34493507-00 -0.68715071+00  0.50252302+02
0.66366615+00   -0.24215761-02  0.10349781+04  0.64456875+04  0.23369447-00  0.93862439+00 -0.25371218-00  0.76485321+02
-0.15233128-02  -0.93131675-02  0.14112099+04  0.20958377+08  0.73245119+00  0.16423731-02  0.68077394+00  0.42904352+02
0.18036251+03   -0.18036251+03  0.24017477+04  0.61192929+00  0.31670547-00  0.25827291+04  0.25996512+03  0.32706291+08
0.16230881+07    0.33650568+08  0.13705429+03  0.28462686+03
1  0.69012133+02  0.22135580+01  0.12893588+04  0.27012892+03  0.37164838+05  0.85600267+05 -0.23666666+01  0.23530380+01
2  0.57252038+02  0.56557932+02  0.60630462+02  0.62166167+02  0.50379999+02  0.68809998+02  0.10566701+04  0.74384334+03
3  0.40415238+03  0.88520647+03  0.81125400+02  0.18900352+03  0.             0.             0.48527778+03  0.10742100+04
4  0.18433332+03 -0.30316665+01  0.30316665+01  0.             0.             0.             0.             0.22093316+01
5  0.58900511+02  0.31800512+02  0.29188511+02  0.15365876+01  0.21902420+01 -0.14893022+03  0.89574263-01  0.21110585-00
6  0.83789099+01  0.18129578+02  0.90000001+02  0.41000000+02  0.37200000+02  0.11300000+03  0.             0.68400297+02

               82.0000      51961.00      2053.552     46.41303     3123.592     28.25803   -23509.67    94.516       798.29
              279.5435   20961867.75     80629.223     45.76831   174565.547      2.41921      918.17     0.123       240.90
               28.3027          4.48    365237.637      0.66367     1561.859      2.17479     2872.28     0.368   2744606.97
0.               0.24192062+01  0.25455578+04  0.16112720+06  0.65517221+00 -0.34490065-00 -0.67215467+00  0.49067291+02
0.66366615+00    0.28345514-01  0.10717404+04  0.85517866+04  0.23945890-00  0.93863696+00 -0.24823132-00  0.76145392+02
-0.15233128-02   0.11319862-01  0.14598823+04  0.20961247+08  0.71652451+00  0.16808596-02  0.69755887+00  0.44231688+02
0.18947614+03   -0.18947614+03  0.24484763+04  0.61624893+00  0.31755424-00  0.26385686+04  0.26057278+03  0.33596700+08
0.16793203+07    0.36517700+08  0.13750711+03  0.28545183+03
1  0.70077848+02  0.22142870+01  0.12894122+04  0.27003680+03  0.36194398+05  0.83451771+05 -0.23799999+01  0.24192062+01
2  0.57020676+02  0.57143247+02  0.60477229+02  0.62810137+02  0.50379999+02  0.68789997+02  0.10595860+04  0.74853738+03
3  0.40405759+03  0.88535415+03  0.81103690+02  0.18893311+03  0.             0.             0.48516168+03  0.10742872+04
4  0.18533333+03 -0.30509999+01  0.30509999+01  0.             0.             0.             0.             0.22083119+01
5  0.58889553+02  0.31949554+02  0.29333366+02  0.14729450+01  0.21911200+01 -0.14523817+03  0.87884979-01  0.20713726-00
6  0.84102587+01  0.18181907+02  0.88100000+02  0.40700000+02  0.35980000+02  0.11160000+03  0.             0.68354537+02

               84.0000      54567.50      2156.833     45.19917     3243.850     28.10473   -21234.28    94.513       761.20
              279.5525   20964874.00     81006.184     44.44097   171445.869      2.48314     -673.45    -0.236       207.10
               28.3021          4.93    365953.363      0.66367     1561.768      2.29000     1466.73     0.123   2501672.91
0.               0.24831371+01  0.26450518+04  0.16632077+06  0.67058469+00 -0.34486539-00 -0.65679751+00  0.47887792+02
0.66366615+00    0.12567361-01  0.11113332+04  0.10734656+05  0.24509484-00  0.93864983+00 -0.24261840-00  0.75812561+02
-0.15233128-02  -0.89228665-02  0.15065905+04  0.20964212+08  0.70017411+00  0.17185668-02  0.71396945+00  0.45559025+02
0.19774734+03   -0.19774734+03  0.24542486+04  0.61887681+00  0.31795567-00  0.26926148+04  0.26117015+03  0.34489514+08
0.16417855+07    0.40167627+08  0.13753746+03  0.28618806+03
1  0.71005911+02  0.22147941+01  0.12894087+04  0.26994888+03  0.35224184+05  0.81303127+05 -0.23933332+01  0.24831371+01
2  0.56770022+02  0.57664555+02  0.60302064+02  0.63389062+02  0.50379999+02  0.68769997+02  0.10625018+04  0.75323493+03
3  0.40397456+03  0.88543414+03  0.81082178+02  0.18886671+03  0.             0.             0.48505675+03  0.10743008+04
4  0.18646666+03 -0.30703332+01  0.30703332+01  0.             0.             0.             0.             0.22073351+01
5  0.58849292+02  0.32069293+02  0.29477809+02  0.14382055+01  0.21917710+01 -0.14316779+03  0.86632337-01  0.20419447-00
6  0.84228087+01  0.18192740+02  0.86200000+02  0.40400000+02  0.34760000+02  0.11020000+03  0.             0.68308777+02

               86.0000      58072.50      2281.640     44.02410     3365.031     27.93005   -18820.07    94.581       727.23
              279.5623   20967980.25     81348.535     43.35696   168322.275      2.54991      553.02     0.050       177.18
               28.3014          5.48    366681.309      0.54201     1561.981      2.42005    -1005.63    -0.261   2255535.19
0.               0.25459118+01  0.27583185+04  0.17172740+06  0.68290861+00 -0.34482940-00 -0.64399334+00  0.46928648+02
0.54200648+00   -0.13159594-01  0.11509603+04  0.12996995+05  0.24959103-00  0.93866298+00 -0.23793863-00  0.75546687+02
-0.15233128-02   0.78211990-02  0.15547796+04  0.20967273+08  0.68654148+00  0.17554363-02  0.72708789+00  0.46643043+02
0.20532428+03   -0.20532428+03  0.25390579+04  0.62791107+00  0.31825858-00  0.27450100+04  0.26175561+03  0.35384481+08
0.16552795+07    0.43467253+08  0.13835479+03  0.28683400+03
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CASE  1                        TRAJECTORY ID  -6 ACM                          SECTION  1                           PAGE  13
1   0.72095013+02  0.27166343+01  0.12896887+04  0.26988251+03  0.34254225+05  0.79154313+05 -0.24633332+01  0.25499118+01
2   0.54611022+02  0.58266734+02  0.60221909+02  0.64049335+02  0.50379999+02  0.68748997+02  0.10654171+04  0.75793384+03
3   0.40386685+03  0.88582185+03  0.80978777+02  0.18890373+03  0.             0.             0.48484566+03  0.10747255+04
4   0.19206665+03 -0.31718332+01  0.31718332+01  0.             0.             0.             0.             0.22066074+01
5   0.58874557+02  0.32219558+02  0.29629474+02  0.12304007+01  0.21933170+01 -0.13825181+03  0.83658014-01  0.19720697-00
6   0.84339456+01  0.18199559+02  0.84300001+02  0.40099999+02  0.33540000+02  0.10879999+03  0.             0.68278486+02

                 88.0000      61278.75      2416.811    42.52069      3499.017      27.75810  -16345.59    94.663      677.46
                279.5728   20971187.00     81655.753    42.27294    165197.807       2.61922    1667.08     0.341      151.17
                 28.3097          6.01    367388.734     0.54201      1562.491       2.52861   -1449.81    -0.463  1938060.52
 0.                 0.26192171+01  0.28720649+04  0.17735704+06  0.69498809+00 -0.34479275-00 -0.63095831+00  0.45973732+02
 0.54200648+00 -0.17034931-01  0.11515772+04  0.15339300+05  0.25395788-00  0.93867634+00 -0.23317463-00  0.75285786+02
-0.15233128-02  0.24229559-01  0.16045276+04  0.20970432+08  0.67266311+00  0.17915743-02  0.73994697+00  0.47727060+02
 0.21209830+03 -0.21209830+03  0.25929354+04  0.63938150+00  0.32007384-00  0.27956731+04  0.26232806+03  0.36281571+08
 0.16373041+07  0.46789984+08  0.13876484+03  0.28738894+03
1   0.73329801+02  0.22197881+01  0.12902436+04  0.26983743+03  0.33284850+05  0.77004039+05 -0.25899999+01  0.26192171+01
2   0.56541580+02  0.58942647+02  0.60234702+02  0.64786538+02  0.50379999+02  0.68726997+02  0.10683307+04  0.76263630+03
3   0.40373567+03  0.88650801+03  0.80793442+02  0.18904399+03  0.             0.             0.48452912+03  0.10755520+04
4   0.20219999+03 -0.33554999+01  0.33554999+01  0.             0.             0.             0.             0.22061279+01
5   0.58965207+02  0.32400200+02  0.25788364+02  0.10497905+01  0.21957316+01 -0.13057334+03  0.79012298-01  0.18629292-00
6   0.84420736+01  0.18198366+02  0.82400000+02  0.39800000+02  0.32319999+02  0.10740000+03  0.             0.68263666+02

                 90.0000      64590.25      2555.670    41.87690      3633.948      27.58374  -14303.94    94.739      641.39
                279.5846   20974499.50     81922.600    41.18892    162072.340       2.68777    2474.69     0.574      128.63
                 28.2998          6.61    368010.348     0.54201      1562.975       2.66738    -901.42    -0.348  1721048.36
 0.                 0.26877650+01  0.25523820+04  0.18321874+06  0.70681878+00 -0.34475548-00 -0.61769709+00  0.45023331+02
 0.54200648+00 -0.93255412-02  0.12338040+04  0.17764328+05  0.25831381-00  0.93868995+00 -0.22832812-00  0.75029966+02
-0.15233128-02  0.36521565-01  0.16555764+04  0.20973692+08  0.65854397+00  0.18269679-02  0.75253938+00  0.48811077+02
 0.21811990+03 -0.21811990+03  0.26259185+04  0.65203902+00  0.32463050-00  0.28446905+04  0.26288681+03  0.37180557+08
 0.16417556+07  0.50067604+08  0.13916448+03  0.28786769+03
1   0.74481028+02  0.22278405+01  0.12907683+04  0.26979631+03  0.32316102+05  0.74852138+05 -0.27166665+01  0.26877650+01
2   0.56458777+02  0.59579021+02  0.60232440+02  0.65483486+02  0.50379999+02  0.68704998+02  0.10712424+04  0.76734404+03
3   0.40361185+03  0.88715652+03  0.80608253+02  0.18918797+03  0.             0.             0.48422020+03  0.10763445+04
4   0.21233333+03 -0.35391665+01  0.35391665+01  0.             0.             0.             0.             0.22056866+01
5   0.59031711+02  0.32556711+02  0.29547242+02  0.89328828+00  0.21980141+01 -0.12331499+03  0.74620769-01  0.17597602-00
6   0.84361791+01  0.18165865+02  0.80500001+02  0.39500000+02  0.31100000+02  0.10600000+03  0.             0.68248846+02

                 92.0000      68808.50      2695.820    40.87095      3774.076      27.39486  -12235.43    94.801      591.60
                279.5960   20977918.50     82155.329    40.10490    158945.877       2.75866    2058.79     0.505      109.08
                 28.2990          7.25    368570.176     0.54201      1563.495       2.78218   -1732.96    -0.557  1483203.33
 0.                 0.27586553+01  0.31137108+04  0.18932186+06  0.71839648+00 -0.34471758-00 -0.60421442+00  0.44077750+02
 0.54200648+00 -0.19208633-01  0.12781654+04  0.20276044+05  0.26253729-00  0.93870378+00 -0.22340082-00  0.74779330+02
-0.15233128-02  0.31142560-01  0.17072625+04  0.20977055+08  0.64418511+00  0.18616045-02  0.76486333+00  0.49895095+02
 0.22343378+03 -0.22343378+03  0.26680344+04  0.66185679+00  0.32869649-00  0.28921300+04  0.26343117+03  0.38081224+08
 0.15548413+07  0.53301388+08  0.13955414+03  0.28827924+03
1   0.75662073+02  0.22259598+01  0.12913245+04  0.26976030+03  0.31347968+05  0.72698633+05 -0.28433333+01  0.27586553+01
2   0.56371718+02  0.60227228+02  0.60229086+02  0.66194321+02  0.50379999+02  0.68682998+02  0.10741522+04  0.77205753+03
3   0.40348850+03  0.88783503+03  0.80423775+02  0.18933652+03  0.             0.             0.48391327+03  0.10771715+04
4   0.22746666+03 -0.37228332+01  0.37228332+01  0.             0.             0.             0.             0.22052871+01
5   0.59077516+02  0.32692516+02  0.30106140+02  0.75748217+00  0.22003642+01 -0.11646733+03  0.70477669-01  0.16623969-00
6   0.84259958+01  0.18121888+02  0.78600001+02  0.39200000+02  0.29880000+02  0.10460000+03  0.             0.68234026+02

                 94.0000      71535.00      2838.045    39.89556      3919.519      27.18867  -10493.32    94.845      549.25
                279.6088   20981445.75     82355.867    39.02089    155818.389       2.82965    1642.57     0.417       92.29
                 28.2980          7.94    369059.766     0.54201      1564.007       2.91415    1057.01     0.151  1296846.06
 0.                 0.28256467+01  0.32422208+04  0.19567701+06  0.72971705+00 -0.34467907-00 -0.59051514+00  0.43137321+02
 0.54200648+00  0.17917486-01  0.13249352+04  0.22878432+05  0.26666678-00  0.93871783+00 -0.21839450-00  0.74533983+02
-0.15233128-02  0.25559680-01  0.17553099+04  0.20985521+08  0.62960367+00  0.18954716-02  0.77691352+00  0.50979112+02


CASE  1                        TRAJECTORY ID  -6 ACM                          SECTION  1                           PAGE  14
 0.22808646+03 -0.22808646+03  0.27092968+04  0.66768182+00  0.33110499-00  0.29380509+04  0.26396066+03  0.38983368+08
 0.15587948+07  0.56469058+08  0.13993426+03  0.28862622+03
1   0.76789151+02  0.22250155+01  0.12918699+04  0.26972753+03  0.30380441+05  0.70543492+05 -0.29699999+01  0.28296467+01
2   0.56273102+02  0.60849309+02  0.60214796+02  0.66879079+02  0.50379999+02  0.68660997+02  0.10770603+04  0.77677809+03
3   0.40337403+03  0.88849588+03  0.80239408+02  0.18948812+03  0.             0.             0.48361344+03  0.10779840+04
4   0.23259999+03 -0.39064998+01  0.39064998+01  0.             0.             0.             0.             0.22049186+01
5   0.59104085+02  0.32809085+02  0.30265033+02  0.64091437+00  0.22026335+01 -0.11314835+03  0.68469261-01  0.16150235-00
6   0.84042365+01  0.18051530+02  0.76700000+02  0.38900000+02  0.28660000+02  0.10320000+03  0.             0.68219206+02

                 96.0000      75170.00      2966.023    38.92739      4070.593      26.95064   -9278.87    94.849      497.36
                279.6225   20985082.00     82528.384    37.93687    152689.848       2.89951     295.10     0.017       77.88
                 28.2970          8.67    369478.461     0.54201      1564.443       3.01875     223.37    -0.067  1107203.78
 0.                 0.28555109+01  0.33762594+04  0.20229446+06  0.74077640+00 -0.34463996-00 -0.57660414+00  0.42202404+02
 0.54200648+00  0.85573540-02  0.13753272+04  0.25578412+05  0.27070083-00  0.93873210+00 -0.21331096-00  0.74294025+02
-0.15233128-02  0.58708434-02  0.18107471+04  0.20984092+08  0.61479287+00  0.19285571-02  0.78868560+00  0.52063128+02
 0.22213706+03 -0.23213706+03  0.27497116+04  0.66850878+00  0.33148408-00  0.29825171+04  0.26447507+03  0.39886810+08
 0.14751908+07  0.59453458+08  0.14030514+03  0.28892478+03
1   0.77747444+02  0.22318561+01  0.12923370+04  0.26969632+03  0.29413511+05  0.68386699+05 -0.30966666+01  0.28995109+01
2   0.56157450+02  0.61398312+02  0.60181138+02  0.67489675+02  0.50379999+02  0.68637998+02  0.10799665+04  0.78150377+03
3   0.40326852+03  0.88906813+03  0.80055005+02  0.18964132+03  0.             0.             0.48332392+03  0.10787094+04
4   0.24273332+03 -0.40901665+01  0.40901665+01  0.             0.             0.             0.             0.22045704+01
5   0.59112476+02  0.32882476+02  0.30431140+02  0.54085600+00  0.22046277+01 -0.11023189+03  0.66704427-01  0.15733954-00
6   0.83673172+01  0.17946763+02  0.74800001+02  0.38599999+02  0.27440000+02  0.10179999+03  0.             0.68204387+02

                 98.0000      78512.00      3118.264    37.97530      4226.993      26.68868   -7552.08    94.889      463.94
                279.6370   20988825.50     82677.586    36.85285    149560.545       2.97256     -31.26    -0.091       65.51
                 28.2959          9.45    369852.023     0.54201      1564.889       3.17916   -1027.01    -0.436   985362.28
 0.                 0.29725583+01  0.35166544+04  0.20918640+06  0.75157061+00 -0.34460028-00 -0.56248640+00  0.41273387+02
 0.54200648+00 -0.61096934-02  0.14265041+04  0.28380056+05  0.27463758-00  0.93874658+00 -0.20815201-00  0.74059559+02
-0.15233128-02  0.11880188-02  0.18616386+04  0.20987764+08  0.55976201+00  0.19608452-02  0.80017538+00  0.53147145+02
 0.23579460+03 -0.23579460+03  0.27892751+04  0.67259968+00  0.33315635-00  0.30257422+04  0.26497430+03  0.40791354+08
 0.14466552+07  0.62408121+08  0.14066698+03  0.28917684+03
1   0.78690023+02  0.22345965+01  0.12928100+04  0.26966871+03  0.28447147+05  0.66228580+05 -0.32233332+01  0.29725583+01
2   0.56038802+02  0.61943462+02  0.60147943+02  0.68099179+02  0.50379999+02  0.68613997+02  0.10828710+04  0.78623290+03
3   0.40316622+03  0.88964381+03  0.79870970+02  0.18979774+03  0.             0.             0.48303719+03  0.10794415+04
4   0.25286666+03 -0.42738332+01  0.42738332+01  0.             0.             0.             0.             0.22042513+01
5   0.59105036+02  0.32915036+02  0.30604476+02  0.45496257-00  0.22066182+01 -0.10732083+03  0.64942863-01  0.15318444-00
6   0.83276792+01  0.17834276+02  0.72900000+02  0.38300000+02  0.26220000+02  0.10040000+03  0.             0.68189567+02

                100.0000      82761.50      3283.272    37.04949      4388.880      26.41220   -6651.40    94.928      429.92
                279.6525   20992676.00     82807.666    35.76884    146430.318       3.04791    -145.12    -0.133       54.81
                 28.2947         10.26    370191.605     0.54201      1565.355       3.34607    -376.38    -0.241   866689.12
 0.                 0.30479130+01  0.36626590+04  0.21636482+06  0.76209579+00 -0.34456003-00 -0.54816698+00  0.40350690+02
 0.54200648+00  0.32244619-02  0.14757148+04  0.31285834+05  0.27847683-00  0.93876127+00 -0.20291950-00  0.73830681+02
-0.15233128-02 -0.21668165-03  0.19124355+04  0.20991538+08  0.58451647+00  0.19923363-02  0.81137874+00  0.54231162+02
 0.23897325+03 -0.23897325+03  0.28279562+04  0.67857289+00  0.33745170-00  0.30676484+04  0.26545841+03  0.41696890+08
 0.14115579+07  0.65264902+08  0.14101582+03  0.28939071+03
1   0.75652365+02  0.22375844+01  0.12933010+04  0.26964361+03  0.27481358+05  0.64068959+05 -0.33499999+01  0.30479130+01
2   0.55913036+02  0.62455658+02  0.60111541+02  0.68717777+02  0.50379999+02  0.68589998+02  0.10857739+04  0.79097079+03
3   0.40306307+03  0.89023797+03  0.79687162+02  0.18995645+03  0.             0.             0.48275024+03  0.10801944+04
4   0.26300000+03 -0.44574998+01  0.44574998+01  0.             0.             0.             0.             0.22039538+01
5   0.59086958+02  0.32936358+02  0.30777805+02  0.38060736-00  0.22086579+01 -0.10433763+03  0.63137648-01  0.14892637-00
6   0.82820567+01  0.17706721+02  0.71000001+02  0.38000000+02  0.25000000+02  0.99000001+02  0.             0.68174747+02

                102.0000      86719.50      3450.127    36.16714      4556.241      26.13590   -5433.24    94.949      391.45
                279.6690   20996635.00     82941.784    35.11063    143295.127       3.12637     546.69     0.144       45.66
                 28.2935         11.15    370502.059     0.32910      1565.853       3.49773     115.39    -0.072   744298.15
```

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CASE  1                              TRAJECTORY ID  -6 ACP                          SECTION  1                              PAGE  15
0.              0.31269731+01   0.38136796+04   0.22384045+06   0.76836052+00  -0.34451533-00  -0.53937604+00   0.39793071+02
0.32910206-00   0.10527456-01   0.15355637+04   0.34300748+05   0.28073559-00   0.93877613+00  -0.19970737-00   0.73695690+02
-0.15233128-02  0.11013839-01   0.19635811+04   0.20955414+08   0.57515699+00   0.20231687-02   0.81803986+00   0.54809373+02
0.24166324+03  -0.24166324+03   0.28658541+04   0.68220228+00   0.34003501-00   0.31082396+04   0.26592766+03   0.42603337+08
0.13505389+07   0.68029831+08   0.14136430+03   0.28958213+03
1  0.80600587+02   0.22432168+01   0.12538218+04   0.26962126+03   0.26516541+05   0.61907408+05  -0.37499999+01   0.31263731+01
2  0.55784367+02   0.63064963+02   0.60075928+02   0.69355983+02   0.50379999+02   0.68561997+02   0.10886747+04   0.79570691+03
3  0.40255825+03   0.89086361+03   0.79107302+02   0.19051395+03   0.              0.              0.48206555+03   0.10813775+04
4  0.29499555+03  -0.50374997+01   0.50374997+01   0.              0.              0.              0.              0.22036706+01
5  0.55056246+02   0.32946748+02   0.30980030+02   0.31708350-00   0.22107861+01  -0.10122521+03   0.61254232-01   0.14448385-00
6  0.87322346+01   0.17567682+02   0.65100001+02   0.37700000+02   0.23780000+02   0.97600001+02   0.              0.68159926+02

                104.0000      90788.50      3611.762      35.34004      4725.079      25.87130    -4246.65    94.973      352.33
                279.6865   21000705.25     83061.715      34.45242    140166.912       3.20757      655.96     0.237       37.94
                 28.2921         12.06    370784.555       0.32910      1566.375       3.64109     -588.45    -0.341   634230.38
0.              0.32075745+01   0.39656226+04   0.23162286+06   0.77452464+00  -0.34447830-00  -0.53051373+00   0.39238044+02
0.32910206-00   0.17011934-02   0.15530556+04   0.37429144+05   0.28296528-00   0.93879110+00  -0.19646946-00   0.73562738+02
-0.15233128-02  0.14001542-01   0.20170432+04   0.20959395+08   0.56572162+00   0.20535012-02   0.82459303+00   0.55547582+02
0.24385515+03  -0.24385515+03   0.29030078+04   0.68318254+00   0.34025645-00   0.31475461+04   0.26638240+03   0.43510629+08
0.12725253+07   0.70653513+08   0.14170082+03   0.28974225+03
1  0.81576556+02   0.22491743+01   0.12943637+04   0.26962110+03   0.25553113+05   0.59743442+05  -0.41499998+01   0.32075745+01
2  0.55650282+02   0.63644703+02   0.60037705+02   0.70070029+02   0.50379999+02   0.68533997+02   0.10915712+04   0.80045101+03
3  0.40285215+03   0.89151170+03   0.78490143+02   0.19111096+03   0.              0.              0.48134224+03   0.10826226+04
4  0.22845555+03  -0.56549998+01   0.56549998+01   0.              0.              0.              0.              0.22034221+01
5  0.59016544+02   0.32946544+02   0.31182254+02   0.26345488-00   0.22129785+01  -0.98018859+02   0.59313977-01   0.13990726-00
6  0.81764574+01   0.17412553+02   0.67200001+02   0.37400000+02   0.22560000+02   0.96200000+02   0.              0.68145107+02

                106.0000      94572.00      3795.298      34.55597      4927.585      25.61420    -3263.63    95.008      320.16
                279.7049   21004890.25     83157.071      33.79421    137033.600       3.29081     1078.67     0.458       31.41
                 28.2907         13.05    371062.129       0.32910      1566.989       3.81434     -949.92    -0.514   545594.52
0.              0.32508053+01   0.41305780+04   0.23972257+06   0.78058616+00  -0.34443655-00  -0.52158118+00   0.38685724+02
0.32910206-00  -0.27681253-02   0.16518560+04   0.40673833+05   0.28515364-00   0.93880618+00  -0.19320619-00   0.73431967+02
-0.15233128-02  0.20793658-01   0.20713884+04   0.21003483+08   0.55621159+00   0.20833302-02   0.83103738+00   0.56205792+02
0.24555053+03  -0.24555093+03   0.29353744+04   0.68663582+00   0.34225678-00   0.31856520+04   0.26682284+03   0.44418692+08
0.12151167+07   0.73135623+08   0.14202581+03   0.28986701+03
1  0.82568562+02   0.22542608+01   0.12949558+04   0.26958284+03   0.24591110+05   0.57576952+05  -0.44148146+01   0.32908053+01
2  0.55508356+02   0.64223603+02   0.59954117+02   0.70658863+02   0.50379999+02   0.68506998+02   0.10944635+04   0.80520926+03
3  0.40272471+03   0.89227118+03   0.78039031+02   0.19154381+03   0.              0.              0.48076373+03   0.10838149+04
4  0.25233331+03  -0.61351849+01   0.61351849+01   0.              0.              0.              0.              0.22032374+01
5  0.58968545+02   0.32938546+02   0.31377250+02   0.21811931-00   0.22155656+01  -0.94235255+02   0.57024410-01   0.13450672-00
6  0.81124883+01   0.17237103+02   0.65300001+02   0.37100000+02   0.21340000+02   0.94800001+02   0.              0.68137697+02

                108.0000      99272.75      3984.412      33.82197      5051.917      25.36507    -2330.80    95.037      287.02
                279.7245   21009192.75     83229.282      33.13600    133898.918       3.37743     1262.73     0.620       25.92
                 28.2852         14.09    371343.020       0.32910      1567.717       3.97580     -165.48    -0.178   460532.32
0.              0.33774262+01   0.42975477+04   0.24815022+06   0.78654467+00  -0.34439528-00  -0.51257960+00   0.38136232+02
0.32910206-00   0.85419734-02   0.17129364+04   0.44039215+05   0.28730438-00   0.93882138+00  -0.18991800-00   0.73303358+02
-0.15233128-02  0.24613644-01   0.21270596+04   0.21007682+08   0.54662815+00   0.21126515-02   0.83737206+00   0.56864002+02
0.24692369+03  -0.24692369+03   0.29750293+04   0.69324517+00   0.34798455-00   0.32226463+04   0.26724903+03   0.45327483+08
0.11436070+07   0.75500110+08   0.14235172+03   0.28995724+03
1  0.83619147+02   0.22584083+01   0.12957404+04   0.26956680+03   0.23629554+05   0.55408248+05  -0.45444442+01   0.33774262+01
2  0.55361373+02   0.64819575+02   0.59949373+02   0.71321155+02   0.50379999+02   0.68480958+02   0.10973538+04   0.80997940+03
3  0.40257358+03   0.89316683+03   0.77816546+02   0.19175025+03   0.              0.              0.48039012+03   0.10849170+04
4  0.36395555+03  -0.63255552+01   0.63255552+01   0.              0.              0.              0.              0.22031256+01
5  0.58513310+02   0.32923310+02   0.31565025+02   0.18002160-00   0.22186235+01  -0.89763080+02   0.54318171-01   0.12812337-00
6  0.80427618+01   0.17045630+02   0.63400000+02   0.36800000+02   0.20120001+02   0.93400000+02   0.              0.68137697+02

CASE  1                              TRAJECTORY ID  -6 ACP                          SECTION  1                              PAGE  16

                110.0000     103654.75      4169.992      33.12041      5282.343      25.11974    -1538.20    95.057      255.04
                279.7451   21013616.50     83291.226      32.47779    130762.763       3.46698     1170.54     0.650       21.34
                 28.2876         15.19    371666.785       0.32910      1568.463       4.13045      -28.33    -0.110   386236.07
0.              0.34669790+01   0.44656209+04   0.25691643+06   0.79235536+00  -0.34435330-00  -0.50351016+00   0.37589695+02
0.32910206-00   0.15880006-01   0.17765524+04   0.47527327+05   0.28941719-00   0.93883669+00  -0.18660532-00   0.73176931+02
-0.15233128-02  0.24000291-01   0.21839189+04   0.21011993+08   0.53697258+00   0.21414613-02   0.84359623+00   0.57522212+02
0.24787071+03  -0.24787071+03   0.30100033+04   0.70224976+00   0.35669780-00   0.32585762+04   0.26766138+03   0.46236952+08
0.10635026+07   0.77706266+08   0.14266697+03   0.29002696+03
1  0.84693386+02   0.22625127+01   0.12965711+04   0.26955183+03   0.22669547+05   0.53237316+05  -0.46740739+01   0.34669790+01
2  0.55207272+02   0.65424247+02   0.59901015+02   0.72014507+02   0.50379999+02   0.68454999+02   0.11002421+04   0.81475952+03
3  0.40242020+03   0.89408088+03   0.77594131+02   0.19195770+03   0.              0.              0.48001433+03   0.10860386+04
4  0.37566666+03  -0.65459257+01   0.65459257+01   0.              0.              0.              0.              0.22030240+01
5  0.58851817+02   0.32901817+02   0.31752799+02   0.14818240-00   0.22217418+01  -0.85202555+02   0.51558469-01   0.12161390-00
6  0.79654141+01   0.16834429+02   0.61500001+02   0.36499959+02   0.18500000+02   0.92000001+02   0.              0.68137697+02

                112.0000     108240.00      4361.371      32.44936      5475.107      24.87629     -763.69    95.077      225.45
                279.7669   21018163.25     83350.235      31.81958    127625.063       3.56077     1015.41     0.647       17.38
                 28.2859         16.33    371864.617       0.32910      1565.256       4.27891      -31.41    -0.111   317771.79
0.              0.35607735+01   0.46476821+04   0.26603277+06   0.79814549+00  -0.34431100-00  -0.49437407-00   0.37046246+02
0.32910206-00   0.11646221-01   0.18423782+04   0.51145886+05   0.29145181-00   0.93885212+00  -0.18326858-00   0.73052710+02
-0.15233128-02  0.22448718-01   0.22417194+04   0.21016418+08   0.52724614+00   0.21697557-02   0.84970906+00   0.58180422+02
0.24844351+03  -0.24844351+03   0.30443217+04   0.71293134+00   0.36710506-00   0.32934781+04   0.26806027+03   0.47147062+08
0.58325553+06   0.79752777+08   0.14297581+03   0.29008236+03
1  0.85788452+02   0.22665530+01   0.12972548+04   0.26955132+03   0.21709867+05   0.51064118+05  -0.48037036+01   0.35607735+01
2  0.55141809+02   0.66061440+02   0.59946348+02   0.72773886+02   0.50379999+02   0.68424997+02   0.11031276+04   0.81954303+03
3  0.40228927+03   0.89500558+03   0.77374190+02   0.19217713+03   0.              0.              0.47966346+03   0.10871827+04
4  0.38733332+03  -0.67662960+01   0.67662960+01   0.              0.              0.              0.              0.22030012+01
5  0.58879311+02   0.32885310+02   0.31969478+02   0.12068816-00   0.22247647+01  -0.80781419+02   0.48883115-01   0.11530339-00
6  0.78826725+01   0.16607676+02   0.59600001+02   0.36200000+02   0.17680000+02   0.90600001+02   0.              0.68137697+02

                114.0000     112911.75      4559.480      31.80994      5682.427      24.63735     -114.05    95.097      200.33
                279.7899   21022837.00     83399.506      31.28303    124485.742       3.65814     1016.64     0.738       14.26
                 28.2841         17.56    372108.316       0.26827      1570.074       4.43558      -34.60    -0.112   264356.51
0.              0.36581404+01   0.48318557+04   0.27551123+06   0.80276228+00  -0.34426843-00  -0.48687818-00   0.36605302+02
0.26827223-00   0.11028336-01   0.19104213+04   0.54898315+05   0.29314529-00   0.93886765+00  -0.18053116-00   0.72953645+02
-0.15233128-02  0.23316908-01   0.23007461+04   0.21020960+08   0.51926554+00   0.21975794-02   0.85460911+00   0.58716973+02
0.24865656+03  -0.24865656+03   0.30780086+04   0.72731355+00   0.38118625-00   0.33273925+04   0.26844619+03   0.48057791+08
0.51340567+06   0.81640820+08   0.14327858+03   0.29011778+03
1  0.86522181+02   0.22706727+01   0.12981123+04   0.26955190+03   0.20750893+05   0.48888590+05  -0.49333332+01   0.36581404+01
2  0.55069400+02   0.66713372+02   0.59598855+02   0.73471159+02   0.50379999+02   0.68354997+02   0.11060109+04   0.82433367+03
3  0.40215494+03   0.89595741+03   0.77154329+02   0.19239756+03   0.              0.              0.47930927+03   0.10883550+04
4  0.35855555+03  -0.65866664+01   0.65866664+01   0.              0.              0.              0.              0.22029885+01
5  0.58900556+02   0.32862967+02   0.32196142+02   0.99032082-01   0.22278760+01  -0.76231269+02   0.46129691-01   0.10880873-00
6  0.77921523+01   0.16360795+02   0.57700001+02   0.35900000+02   0.16460001+02   0.89200000+02   0.              0.68137697+02

                116.0000     117713.00      4764.522      31.20369      5892.488      24.40574      535.34    95.118      174.32
                279.8140   21027640.00     83442.891      30.74648    121344.803       3.76041      952.12     0.890       11.60
                 28.2822         18.84    372335.430       0.26827      1570.865       4.59460      -35.77    -0.113   217750.65
0.              0.37604109+01   0.50221549+04   0.28536422+06   0.80730467+00  -0.34422561-00  -0.47933941-00   0.36166579+02
0.26827223-00   0.11436281-01   0.19807365+04   0.58789082+05   0.29477307-00   0.93888327+00  -0.17777836-00   0.72856069+02
-0.15233128-02  0.23059989-01   0.23612834+04   0.21025622+08   0.51124021+00   0.22249775-02   0.85943422+00   0.59253523+02
0.24855472+03  -0.24855472+03   0.31110912+04   0.74769095+00   0.40127206-00   0.33603936+04   0.26881950+03   0.48969080+08
0.83054459+06   0.83350225+08   0.14357558+03   0.29014397+03
1  0.88013571+02   0.22748930+01   0.12989015+04   0.26955333+03   0.19792639+05   0.46710724+05  -0.50629628+01   0.37604109+01
2  0.54591557+02   0.67340507+02   0.60031723+02   0.74187865+02   0.50379999+02   0.68364996+02   0.11088528+04   0.82913209+03
3  0.40202377+03   0.89687774+03   0.76909374+02   0.19264396+03   0.              0.              0.47893315+03   0.10895216+04
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CASE  1                      TRAJECTORY ID  -6 NCP                     SECTION  1                           PAGE  17
4   0.41003703+03 -0.72322219+01  0.72322219+01  0.              0.              0.              0.              0.22029825+01
5   0.58519419+02  0.32783020+02  0.32402813+02  0.80579462-01  0.22308934+01 -0.71818370+02  0.43459321-01  0.10250998-00
6   0.76553838+01  0.16096768+02  0.55800001+02  0.35600000+02  0.15240000+02  0.87800001+02  0.              0.68137697+02

           118.0000    122648.00     4976.835    30.62688     6105.660    24.18016    1087.19   95.140      151.82
           279.8394  21032577.25    83480.056    30.20993   118202.322     3.86713     863.28    0.837        9.43
            29.2802        20.19   372543.629     0.26827     1571.619     4.75827     -35.95   -0.114   179109.77
0.                0.38671304+01  0.52190747+04  0.29560438+06  0.81177627+00 -0.34418255-00 -0.47175845-00  0.35730156+02
0.26827223-00     0.11880465-01  0.20534635+04  0.62822868+05  0.29637590-00  0.93889897+00 -0.17501045-00  0.72759993+02
-0.15233128-02    0.22426728-01  0.24233250+04  0.21030407+08  0.50316564+00  0.22519477-02  0.86418395+00  0.59790073+02
0.24809828+03    -0.24809829+03  0.31435555+04  0.77296226+00  0.42626548-00  0.33924667+04  0.26918077+03  0.49880888+08
0.75560708+06     0.84958026+08  0.14386710+03  0.29016095+03
1   0.89046581+02  0.22791982+01  0.12996534+04  0.26955537+03  0.18835171+05  0.44530533+05 -0.51925924+01  0.38671304+01
2   0.54506671+02  0.67935509+02  0.69072916+02  0.74876406+02  0.50379999+02  0.68334997+02  0.11117720+04  0.83394068+03
3   0.40185646+03  0.89775685+03  0.76637798+02  0.19291758+03  0.              0.              0.47853426+03  0.10906744+04
4   0.42040735+03 -0.75044440+01  0.75044440+01  0.              0.              0.              0.              0.22029822+01
5   0.58934546+02  0.32645345+02  0.32619476+02  0.65453196-01  0.22337886+01 -0.67584043+02  0.40897010-01  0.96466113-01
6   0.75507294+01  0.15811202+02  0.53900000+02  0.35300000+02  0.14020000+02  0.86400000+02  0.              0.68137697+02

           120.0000    127720.00     5196.624    30.07734     6334.164    23.96021    1528.46   95.161      133.62
           279.9661  21037651.50    83512.201    29.67337   115058.338     3.97870     769.46    0.850        7.68
            28.2781        21.61   372748.594     0.26827     1572.404     4.92660     -35.77   -0.115   147768.15
0.                0.35786985+01  0.54227138+04  0.30624501+06  0.81617668+00 -0.34413526-00 -0.46413594-00  0.35296123+02
0.26827223-00     0.12362944-01  0.21286760+04  0.67004576+05  0.29795094-00  0.93891475+00 -0.17222766-00  0.72665427+02
-0.15233128-02    0.21611359-01  0.24868748+04  0.21035317+08  0.49505495-00  0.22784875-02  0.86885791+00  0.60326624+02
0.24738461+03    -0.24738461+03  0.31755454+04  0.80206154+00  0.45505839-00  0.34237320+04  0.26953028+03  0.50793167+08
0.65437557+06     0.86412152+08  0.14415340+03  0.29016682+03
1   0.90136042+02  0.22836138+01  0.13004363+04  0.26955786+03  0.17878503+05  0.42348035+05 -0.53222220+01  0.39786985+01
2   0.54814011+02  0.68552734+02  0.60111916+02  0.75591290+02  0.50379999+02  0.68304998+02  0.11146482+04  0.83875796+03
3   0.40176374+03  0.89867266+03  0.76366244+02  0.19319161+03  0.              0.              0.47812998+03  0.10918643+04
4   0.42077776+03 -0.77766663+01  0.77766663+01  0.              0.              0.              0.              0.22029863+01
5   0.58946683+02  0.32546683+02  0.32836135+02  0.53315926-01  0.22368071+01 -0.63169532+02  0.38225665-01  0.90165058-01
6   0.74774262+01  0.15502340+02  0.52000000+02  0.34599999+02  0.12800000+02  0.85000001+02  0.              0.68137697+02

           122.0000    132934.25     5424.279    29.55257     6566.404    23.74524    1923.18   95.183      116.97
           279.8942  21042867.75    83536.573    29.13683   111912.723     4.09612     665.99    0.841        6.25
            28.2758        23.10   372954.242     0.26827     1573.228     5.09726     -34.78   -0.116   121608.63
0.                0.40561156+01  0.56335033+04  0.31729999+06  0.82050551+00 -0.34409574-00 -0.45647255-00  0.34864569+02
0.26827223-00     0.12898950-01  0.22965267+04  0.71339329+05  0.29950074-00  0.93893062+00 -0.16943023-00  0.72572380+02
-0.15233128-02    0.20585194-01  0.25519756+04  0.21040355+08  0.48685686-00  0.23045947-02  0.87345567+00  0.60863174+02
0.24635655+03    -0.24639659+03  0.32069631+04  0.83340385+00  0.48618579-00  0.34541930+04  0.26986851+03  0.51705924+08
0.67445228+06     0.87730688+08  0.14443482+03  0.29016112+03
1   0.91121065+02  0.22874098+01  0.13012571+04  0.26956096+03  0.16922596+05  0.40163147+05 -0.53999998+01  0.40961156+01
2   0.54714714+02  0.69157835+02  0.60151304+02  0.76338585+02  0.50379999+02  0.68262497+02  0.11175228+04  0.84357096+03
3   0.40162484+03  0.89963228+03  0.76203643+02  0.19335731+03  0.              0.              0.47782849+03  0.10929896+04
4   0.43699558+03 -0.79399956+01  0.79399996+01  0.              0.              0.              0.              0.22029954+01
5   0.58956607+02  0.32361807+02  0.33143085+02  0.43391578-01  0.22359711+01 -0.58542147+02  0.35425504-01  0.83560158-01
6   0.73563851+01  0.15171253+02  0.50100001+02  0.34700000+02  0.11580001+02  0.83600001+02  0.              0.68137697+02

           124.0000    138293.25     5660.127    29.05077     6806.725    23.53496    2266.63   95.206      101.53
           279.9236  21048229.50    83551.810    28.60028   108765.433     4.21987     558.65    0.813        5.07
            28.2735        24.66   373164.121     0.26827     1574.100     5.27056     -33.10   -0.118    99708.65
0.                0.42198726+01  0.58517586+04  0.32878397+06  0.82476239+00 -0.34405199-00 -0.44876897-00  0.34435590+02
0.26827223-00     0.13471243-01  0.22871342+04  0.75832517+05  0.30102429-00  0.93894657+00 -0.16661841-00  0.72480865+02
-0.15233128-02    0.19465395-01  0.26186723+04  0.21045525+08  0.47969606-00  0.23302670-02  0.87797684+00  0.61399723+02
0.24517941+03    -0.24517941+03  0.32378690+04  0.86555416+00  0.51813579+00  0.34839139+04  0.27019572+03  0.52619126+08
0.57464570+06     0.88943468+08  0.14471149+03  0.29014346+03

CASE  1                      TRAJECTORY ID  -6 NOP                     SECTION  1                           PAGE  18
1   0.92194422+02  0.22902394+01  0.13021253+04  0.26956447+03  0.15567081+05  0.37976193+05 -0.53999998+01  0.42198726+01
2   0.54607807+02  0.69878752+02  0.60190481+02  0.77127130+02  0.50379999+02  0.68219998+02  0.11203565+04  0.84839599+03
3   0.40147805+03  0.90064728+03  0.76204419+02  0.19336005+03  0.              0.              0.47768250+03  0.10940073+04
4   0.43699558+03 -0.79399956+01  0.79399996+01  0.              0.              0.              0.              0.22030079+01
5   0.58964767+02  0.32217168+02  0.33450023+02  0.35230813-01  0.22433192+01 -0.53645575+02  0.32462450-01  0.76571035-01
6   0.72265735+01  0.14815927+02  0.48200000+02  0.34400000+02  0.10360000+02  0.82200000+02  0.              0.68137697+02

           126.0000    143802.50     5904.615    28.57008     7055.591    23.32899    2577.23   95.229       88.02
           279.9544  21053741.00    83564.763    28.06272   105616.300     4.35090     457.31    0.767        4.10
            28.2710        26.30   373389.551     0.26827     1575.068     5.44971     -31.15   -0.119    81501.08
0.                0.43508954+01  0.60779252+04  0.34071220+06  0.82894654+00 -0.34400802-00 -0.44102585-00  0.34009285+02
0.26827223-00     0.14083347-01  0.23706597+04  0.80489811+05  0.30252143-00  0.93896261+00 -0.16379245-00  0.72390891+02
-0.15233128-02    0.18472125-01  0.26870353+04  0.21050831+08  0.47045328-00  0.23555021-02  0.88242102+00  0.61936274+02
0.24372202+03    -0.24372202+03  0.32682821+04  0.89712334+00  0.54943347+00  0.35129012+04  0.27051228+03  0.53532794+08
0.51572175+06     0.90033100+08  0.14498371+03  0.29011656+03
1   0.94033628+02  0.22933692+01  0.13030890+04  0.26956853+03  0.15011872+05  0.35787088+05 -0.53999598+01  0.43508954+01
2   0.54493525+02  0.70633645+02  0.60230978+02  0.77998462+02  0.50379999+02  0.68219997+02  0.11232708+04  0.85327984+03
3   0.40131714+03  0.90177191+03  0.76205264+02  0.19336327+03  0.              0.              0.47752240+03  0.10951351+04
4   0.43699558+03 -0.79399596+01  0.79399596+01  0.              0.              0.              0.              0.22030243+01
5   0.58571503+02  0.32071103+02  0.33450031+02  0.28495675-01  0.22470225+01 -0.48229591+02  0.29185086-01  0.68840527-01
6   0.70880236+01  0.14437265+02  0.46300001+02  0.34100000+02  0.91400003+01  0.80800001+02  0.              0.68137697+02

           128.0000    149466.00     6158.218    28.10903     7313.476    23.12716    2896.69   95.253       73.85
           279.9867  21059407.00    83576.864    27.52717   102465.173     4.49026     353.16    0.705        3.22
            28.2684        28.01   373628.066     0.26827     1576.107     5.63402     -28.12   -0.120    64563.62
0.                0.44902645+01  0.63124396+04  0.35310122+06  0.83305880+00 -0.34396382-00 -0.43324390-00  0.33585753+02
0.26827223-00     0.14737193-01  0.24572659+04  0.85317206+05  0.30399204-00  0.93897872+00 -0.16095259-00  0.72302466+02
-0.15233128-02    0.17311881-01  0.27571511+04  0.21056274+08  0.46216524-00  0.23802578-02  0.88678781+00  0.62472824+02
0.24203413+03    -0.24203413+03  0.32592203+04  0.92673998+00  0.57882285+00  0.35411811+04  0.27081861+03  0.54446948+08
0.45478907+06     0.91011104+08  0.14525167+03  0.29008434+03
1   0.96004245+02  0.22967276+01  0.13041236+04  0.26957305+03  0.14056994+05  0.33595660+05 -0.53999998+01  0.44902645+01
2   0.54371643+02  0.71443494+02  0.60273569+02  0.78932041+02  0.50379999+02  0.68219997+02  0.11261447+04  0.85816769+03
3   0.40114493+03  0.90297664+03  0.76206177+02  0.19336687+03  0.              0.              0.47735111+03  0.10963455+04
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.              0.              0.              0.              0.22030435+01
5   0.58577664+02  0.31924464+02  0.33450031+02  0.22335344-01  0.22509965+01 -0.42417497+02  0.25668024-01  0.60544633-01
6   0.69403546+01  0.14033002+02  0.44400000+02  0.33800000+02  0.79200000+01  0.79400000+02  0.              0.68137697+02

           130.0000    155288.75     6421.482    27.66618     7580.945    22.92519    3196.40   95.277       60.29
           280.0296  21065233.00    83586.795    26.99062    99311.889     4.63848     257.83    0.627        2.53
            28.2656        29.82   373878.539     0.26827     1577.224     5.77514     -24.26   -0.121    45782.40
0.                0.46384777+01  0.65558251+04  0.36596797+06  0.83709761+00 -0.34391541-00 -0.42542379-00  0.33165108+02
0.26827223-00     0.15442235-01  0.25471465+04  0.90321053+05  0.30543600-00  0.93899451+00 -0.15809908-00  0.72215603+02
-0.15233128-02    0.16339021-01  0.28251213+04  0.21061861+08  0.45384468-00  0.24046515-02  0.89107684+00  0.63009375+02
0.24009344+03    -0.24009344+03  0.33277600+04  0.95326717+00  0.60514617+00  0.35687467+04  0.27111507+03  0.55361614+08
0.38711551+06     0.91855045+08  0.14551558+03  0.29004389+03
1   0.98118507+02  0.23003373+01  0.13052361+04  0.26957822+03  0.13102470+05  0.31401719+05 -0.53999998+01  0.46384777+01
2   0.54241332+02  0.72313403+02  0.60318325+02  0.79933672+02  0.50379999+02  0.68219997+02  0.11290189+04  0.86306032+03
3   0.40096049+03  0.90427558+03  0.76207180+02  0.19337104+03  0.              0.              0.47716767+03  0.10976466+04
4   0.43699558+03 -0.79399556+01  0.79399996+01  0.              0.              0.              0.              0.22030671+01
5   0.58592444+02  0.31776444+02  0.33450031+02  0.17555444-01  0.22552678+01 -0.36170766+02  0.21887951-01  0.51628350-01
6   0.67825593+01  0.13600493+02  0.42500000+02  0.33499999+02  0.67000007+01  0.78000001+02  0.              0.68137697+02

           132.0000    161276.00     6694.956    27.24037     7858.556    22.73500    3374.92   95.301       52.35
           280.0561  21071223.25    83594.385    26.45407    96156.302     4.79533     191.38    0.535        2.04
            28.2627        31.70   374138.082     0.26827     1578.407     6.05474     -21.95   -0.123    42706.97
0.                0.47953349+01  0.68085966+04  0.37933078+06  0.84106300+00 -0.34387478-00 -0.41756619-00  0.32747458+02
0.26827223-00     0.16153467-01  0.26404512+04  0.95508098+05  0.30685317-00  0.93901118+00 -0.15523218-00  0.72130310+02
-0.15233128-02    0.15852130-01  0.29030531+04  0.21067593+08  0.44548032-00  0.24285623-02  0.89528773+00  0.63545925+02
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CASE 1                        TRAJECTORY ID -6 ACP                  SECTION 1                          PAGE 19
 0.23792844+03 -0.23792844+03 0.33567370+04 0.97592525+00 0.62760139+00 0.35956414+04 0.27140201+03 0.56276800+08
 0.35046236+06 0.92551056+08 0.14577565+03 0.28959585+03
1  0.10035275+03 0.23741635+01 0.13064132+04 0.26958356+03 0.12148324+05 0.29205099+05 -0.53599598+01 0.47953349+01
2  0.54799558+02 0.73732561+02 0.60361796+02 0.80992164+02 0.50379599+02 0.68219997+02 0.11318933+04 0.86795826+03
3  0.40076474+03 0.90564849+03 0.76208187+02 0.19337537+03 0. 0. 0.47697292+03 0.10990238+04
4  0.43699558+03 -0.79399996+01 0.79399996+01 0. 0. 0. 0. 0.22030926+01
5  0.58585838+02 0.31627038+02 0.33450031+02 0.14161319-01 0.22557963+01 -0.29547713+02 0.17880154-01 0.42174941-01
6  0.66117753+01 0.13133158+02 0.40600001+02 0.33200000+02 0.54800005+01 0.76600001+02 0. 0.68137697+02

          134.0000     167433.00     6979.234    26.83345     8146.884    22.54690   3525.14   95.326    45.52
          280.0932   21077383.00    83603.413    26.03918    92998.270     4.96285    169.07    0.548     1.63
           28.2597         33.67   374413.961     0.20744     1575.680     6.31183    -20.30   -0.124  35623.08
 0.             0.49628522+01 0.70711690+04 0.39320888+06 0.84408284+00 -0.34382597-00 -0.41146500-00 0.32426196+02
 0.20744240-00 0.16558213-01 0.27374518+04 0.10088542+06 0.30791923-00 0.93502750+00 -0.15300635-00 0.72066121+02
-0.15233128-02 0.16279737-01 0.29753713+04 0.21073474+08 0.43898568-00 0.24520776-02 0.89849000+00 0.63960817+02
 0.23558092+03 -0.23558092+03 0.32653470+04 0.99794749+00 0.64943004+00 0.36219259+04 0.27167974+03 0.57192554+08
 0.31768316+06 0.93259268+08 0.14603207+03 0.28994253+03
1  0.10275285+03 0.23081710+01 0.13076732+04 0.26959638+03 0.11194556+05 0.27005654+05 -0.53599598+01 0.49628522+01
2  0.53556599+02 0.74220805+02 0.60456637+02 0.82129219+02 0.50379599+02 0.68219997+02 0.11347804+04 0.87286635+03
3  0.40056544+03 0.90710381+03 0.76210564+02 0.19338587+03 0. 0. 0.47677994+03 0.11004896+04
4  0.43699558+03 -0.79399996+01 0.79399996+01 0. 0. 0. 0. 0.22031576+01
5  0.58588667+02 0.31477068+02 0.33450031+02 0.11331214-01 0.22645324+01 -0.22621215+02 0.13688735-01 0.32288601-01
6  0.64778025+01 0.12630364+02 0.38700000+02 0.32900000+02 0.42600001+01 0.75200000+02 0. 0.68137697+02

          136.0000     173767.25     7275.022    26.44722     8446.622    22.36724   3658.98   95.352    39.33
          280.1320   21083720.50    83609.291    25.62429    89837.599     5.14231    143.91    0.544     1.30
           28.2565         35.73   374710.187     0.20744     1581.053     6.57934    -18.55   -0.126  29525.86
 0.             0.51423065+01 0.73440462+04 0.40762231+06 0.84705842+00 -0.34378500-00 -0.40534210-00 0.32106845+02
 0.20744240-00 0.17876787-01 0.28382172+04 0.10646044+06 0.30896915-00 0.93504387+00 -0.15077286-00 0.72992882+02
-0.15233128-02 0.16650255-01 0.30585841+04 0.21079512+08 0.43246803-00 0.24752469-02 0.90164515+00 0.64375708+02
 0.23305224+03 -0.23305226+03 0.34135485+04 0.10222535+01 0.67355037+00 0.36476230+04 0.27194856+03 0.58108885+08
 0.28610036+06 0.53862685+08 0.14628507+03 0.28988173+03
1  0.10534095+03 0.23126262+01 0.13090409+04 0.26560215+03 0.10241216+05 0.24803144+05 -0.53999958+01 0.51423065+01
2  0.53029353+02 0.75787516+02 0.60591286+02 0.83355327+02 0.50379599+02 0.68219997+02 0.11376800+04 0.87778342+03
3  0.40034175+03 0.90869911+03 0.76211567+02 0.19339058+03 0. 0. 0.47655331+03 0.11020897+04
4  0.43699558+03 -0.79399996+01 0.75399996+01 0. 0. 0. 0. 0.22031862+01
5  0.58999588+02 0.31326585+02 0.33450031+02 0.50099208-02 0.22658064+01 -0.14907992+02 0.90212465-02 0.21278929-01
6  0.62773341+01 0.12088776+02 0.36800001+02 0.32600000+02 0.30400009+01 0.73800001+02 0. 0.68137697+02

          138.0000     180286.25     7583.111    26.08017     8758.573    22.19545   3761.65   95.379    34.47
          280.1776   21090243.00    83614.328    25.20940    86674.074     5.33491    120.43    0.523     1.02
           28.2531         37.89   375028.895     0.20744     1582.539     6.93763    -17.22   -0.127  25271.35
 0.             0.53349139+01 0.76279664+04 0.42259242+06 0.84598559+00 -0.34373987-00 -0.39919782-00 0.31789461+02
 0.20744240-00 0.18910699-01 0.29430657+04 0.11224101+06 0.31000286-00 0.93906031+00 -0.14853183-00 0.71940596+02
-0.15233128-02 0.17097739-01 0.31400757+04 0.21085711+08 0.42592771-00 0.24580690-02 0.90475304+00 0.64790600+02
 0.23034582+03 -0.23034582+03 0.34413599+04 0.10477401+01 0.69886565+00 0.36727535+04 0.27220878+03 0.59025841+08
 0.26135602+06 0.94409162+08 0.14653491+03 0.28981405+03
1  0.10813822+03 0.23174635+01 0.13105217+04 0.26960752+03 0.92883486+04 0.22597307+05 -0.53599998+01 0.53349139+01
2  0.52642993+02 0.76441665+02 0.60542353+02 0.84680564+02 0.50379999+02 0.68219997+02 0.11406190+04 0.88270207+03
3  0.40005388+03 0.91042782+03 0.76212553+02 0.19339497+03 0. 0. 0.47630642+03 0.11038227+04
4  0.43695558+03 -0.79399956+01 0.75399596+01 0. 0. 0. 0. 0.22032131+01
5  0.58552858+02 0.31175695+02 0.33450031+02 0.70996877-02 0.22755246+01 -0.65305197+01 0.39518017-02 0.93213401-02
6  0.60553160+01 0.11505611+02 0.34900001+02 0.32300000+02 0.18200006+01 0.72400001+02 0. 0.68137698+02

          140.0000     186558.00     7904.399    25.73106     9083.648    22.03130   3845.80   95.406    30.08
          280.2150   21096558.75    83619.267    24.79451    83507.249     5.54300     57.19    0.487     0.79
           28.2496         40.15   375421.574     0.20744     1584.383     7.35287    -15.82   -0.129  21721.16

CASE 1                        TRAJECTORY ID -6 NOP                  SECTION 1                          PAGE 20
 0.             0.55429964+01 0.79237595+04 0.43814208+06 0.85287619+00 -0.34369458-00 -0.39303247-00 0.31474108+02
 0.20744240-00 0.20021752-01 0.30523046+04 0.11823562+06 0.31102032-00 0.93907680+00 -0.14628337-00 0.71879268+02
-0.15233128-02 0.17599124-01 0.32264741+04 0.21092077+08 0.41936505-00 0.25205428-02 0.90781347+00 0.65205491+02
 0.22747064+03 -0.22747064+03 0.34687586+04 0.10732575+01 0.72422662+00 0.36973425+04 0.27246046+03 0.55943521+08
 0.23778527+06 0.94908488+08 0.14678177+03 0.28972769+03
1  0.11120480+03 0.23235501+01 0.13123604+04 0.26961280+03 0.83360507+04 0.20387590+05 -0.53599998+01 0.55429964+01
2  0.53428211+02 0.77709693+02 0.60573103+02 0.86133301+02 0.50379999+02 0.68219997+02 0.11436468+04 0.88758362+03
3  0.39577312+03 0.91258730+03 0.76210116+02 0.19340269+03 0. 0. 0.47598323+03 0.11059900+04
4  0.43655558+03 -0.79399556+01 0.79399596+01 0. 0. 0. 0. 0.22033711+01
5  0.58994684+02 0.31024494+02 0.33450031+02 0.55158959-02 0.22827628+01 -0.16577294+01 0.98082324-03 0.23070067-02
6  0.58020361+01 0.10885853+02 0.33000001+02 0.32000000+02 0.60000038+00 0.71000001+02 0. 0.68155132+02

          141.8361     193337.25     8211.926    25.42534     9354.552    21.88654   3925.46   95.431    26.22
          280.2557   21103301.25    83623.091    24.41361    80596.409     5.75070     76.42    0.441     0.62
           28.2462         42.31   375943.641     0.20744     1586.939     7.76391    -14.32   -0.130  18700.12
 0.             0.57506999+01 0.82066319+04 0.45294917+06 0.85548691+00 -0.34365288-00 -0.38735398-00 0.31186431+02
 0.20744240-00 0.21123819-01 0.31567770+04 0.12393535+06 0.31194007-00 0.93909159+00 -0.14421269-00 0.71823813+02
-0.15233128-02 0.18096418-01 0.33082181+04 0.21098077+08 0.41332069-00 0.25408676-02 0.91058125+00 0.65586391+02
 0.22467289+03 -0.22467289+03 0.34936750+04 0.10957534+01 0.74659237+00 0.37194436+04 0.27268366+03 0.60786862+08
 0.21531525+06 0.95324536+08 0.14700599+03 0.28959240+03
1  0.11543905+03 0.23317931+01 0.13149124+04 0.26961679+03 0.74623857+04 0.18354841+05 -0.53999998+01 0.57506999+01
2  0.53204528+02 0.79531045+02 0.60594843+02 0.88139281+02 0.50379999+02 0.68219997+02 0.11465081+04 0.89205513+03
3  0.35937080+03 0.91554167+03 0.76207718+02 0.19340908+03 0. 0. 0.47557852+03 0.11089507+04
4  0.43699558+03 -0.79399596+01 0.79399596+01 0. 0. 0. 0. 0.22035119+01
5  0.58995686+02 0.31414337+02 0.33450031+02 0.43120538-02 0.22524595+01 -0.74757237+01 0.44231365-02 0.10403715-01
6  0.55398745+01 0.10278875+02 0.31255668+02 0.31724579+02 -0.52004433+00 0.69714703+02 0. 0.68171138+02

          141.8361     193337.25     8211.926    25.42534     9354.552    21.88694   3925.46   95.431    26.22
          280.2557   21103301.25    83623.091    24.41361    80596.409     5.75070     76.42    0.441     0.62
           28.2462         42.31   375943.641     0.20744     1586.939     7.76391    -14.32   -0.130  18700.12
 0.             0.57506999+01 0.82066319+04 0.45294917+06 0.85548691+00 -0.34365288-00 -0.38735398-00 0.31186431+02
 0.20744240-00 0.21123819-01 0.31567770+04 0.12393535+06 0.31194207-00 0.93909199+00 -0.14421269-00 0.71823813+02
-0.15233128-02 0.18096418-01 0.33082181+04 0.21098077+08 0.41332069-00 0.25408676-02 0.91058125+00 0.65586391+02
 0.22467289+03 -0.22467289+03 0.34936750+04 0.10957534+01 0.74655237+00 0.37194436+04 0.27268366+03 0.60786862+08
 0.21531525+06 0.95324536+08 0.14700599+03 0.28959240+03
1  0.11543905+03 0.23317931+01 0.13149124+04 0.26961679+03 0.74623857+04 0.18354841+05 -0.53999998+01 0.57506999+01
2  0.53204528+02 0.79531045+02 0.60594843+02 0.88139281+02 0.50379599+02 0.68219997+02 0.11465081+04 0.89205513+03
3  0.35937080+03 0.91554167+03 0.76207718+02 0.19340908+03 0. 0. 0.47557852+03 0.11089507+04
4  0.43699558+03 -0.79399596+01 0.79399996+01 0. 0. 0. 0. 0.22035119+01
5  0.58995686+02 0.31414337+02 0.33450031+02 0.43120538-02 0.22524595+01 -0.74757237+01 0.44231365-02 0.10403715-01
6  0.55398745+01 0.10278875+02 0.31255668+02 0.31724579+02 -0.52004423+00 0.69714703+02 0. 0.68171138+02
BEGIN DECAY

          141.9461     193722.25     8728.266    25.40698     9411.143    21.87713   3930.46   95.434    25.98
          280.2582   21103686.50    83472.845    24.41421    80428.204     4.35872     78.94    0.462     0.61
           28.2460         42.44   263160.543    0.            1470.762     7.78716    -14.13   -0.130  18521.22
 0.             0.43587177+01 0.82218620+04 0.45785277+06 0.85548354+00 -0.34365038-00 -0.38736294-00 0.31186771+02
 0.            -0.17574142-03 0.31623317+04 0.12428290+06 0.31193580-00 0.93909289+00 -0.14421595-00 0.71824069+02
 0.             0.58144775-03 0.33121376+04 0.21098440+08 0.41333023-00 0.25420780-02 0.91057690+00 0.65585791+02
 0.22450027+03 -0.22450027+03 0.34951559+04 0.10950971+01 0.74496271+00 0.37207513+04 0.27268467+03 0.60831203+08
 0.21376575+06 0.95348135+08 0.14701534+03 0.23568292+03
1  0.10396436+03 0.23344568+01 0.11592001+04 0.26915140+03 0.74120057+04 0.18237289+05 -0.53599598+01 0.43587177+01
2  0.51584341+02 0.67361386+02 0.57331028+02 0.82703148+02 0.50379999+02 0.68219997+02 0.11466774+04 0.89231597+03
3  0.36422617+03 0.83457355+03 0.76125331+02 0.19302607+03 0. 0. 0.44035150+03 0.10280000+04
4  0.43699558+03 -0.79399556+01 0.79399996+01 0. 0. 0. 0. 0.22010776+01
5  0.58995752+02 0.31437685+02 0.33450031+02 0.42469674-02 0.22241572+01 -0.81611425+02 0.49385375-01 0.11648810-00
6  0.41773517+01 0.77459388+01 0.31151170+02 0.31708080+02 -0.58714350+00 0.69637704+02 0. 0.68172098+02
```

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CASE  1                          TRAJECTORY ID  -6 NOM                              SECTION  1                          PAGE  21

                  142.0900     193511.00      8234.206     25.39795      9417.191      21.87151     3933.21   95.435        25.85
                  280.2594   21103875.50     83366.756     24.41450     80350.513       3.37164       80.12    0.472         0.61
                   28.2455        42.50    153613.080      0.            1413.776       7.79661      -14.04   -0.130      18429.32
 0.                0.33716404+01  0.82275559+04  0.45429577+06  0.85548233+00 -0.34364915-00 -0.38736733-00  0.31186937+02
 0.               -0.17472431-03  0.31644084+04  0.12445325+06  0.31193371-00  0.93909332+00 -0.14421755-00  0.71824197+02
 0.                0.99719814-03  0.33132049+04  0.21098618+08  0.41333490-00  0.25426716-02  0.51057477+00  0.65585496+02
 0.22441553+03 -0.22441553+03  0.34958807+04  0.10954224+01  0.74521805+00  0.37213916+04  0.27266567+03  0.60847727+08
 0.21284464+06  0.55359623+08  0.14702588+03  0.18884162+03
 1   0.77554707+02  0.23358511+01  0.11425428+04  0.26882354+03  0.73887511+04  0.18182982+05 -0.53999998+01  0.33716404+01
 2   0.50447851+02  0.51916109+02  0.55029019+02  0.70381073+02  0.50379999+02  0.68219997+02  0.11467562+04  0.89243647+03
 3   0.34701757+03  0.79552489+03  0.76067293+02  0.19275625+03  0.             0.             0.42308526+03  0.98828114+03
 4   0.43699558+03 -0.79399596+01  0.79399596+01  0.             0.             0.             0.             0.21993563+01
 5   0.58995783+02  0.31445117+02  0.33450031+02  0.42153715-02  0.21762753+01 -0.19244444+03  0.11644626-00  0.27423550-00
 6   0.32236443+01  0.59757528+01  0.31100002+02  0.31700000+02 -0.61999989+00  0.69600001+02  0.             0.68172568+02

                  142.0861     194213.00      8240.145     25.38240      9423.310      21.86110     3938.11   95.436        25.62
                  280.2614   21104177.50     83196.870     24.41497     80232.633       1.78888       81.96    0.489         0.60
                   28.2457        42.61     56391.545      0.            1322.640       7.80839      -13.89   -0.130      18275.11
 0.                0.17888796+01  0.82336155+04  0.45500477+06  0.85547553+00 -0.34364719-00 -0.38737436-00  0.31187203+02
 0.               -0.17307455-03  0.31666188+04  0.12472598+06  0.31193037-00  0.93909403+00 -0.14422011-00  0.71824397+02
 0.                0.13215195-02  0.33134399+04  0.21098904+08  0.41334226-00  0.25436182-02  0.51057137+00  0.65585028+02
 0.22427972+03 -0.22427972+03  0.34970392+04  0.10957804+01  0.74550196+00  0.37224147+04  0.27260496+03  0.60865238+08
 0.21110155+06  0.95377882+08  0.14703632+03  0.10553770+03
 1   0.36291315+02  0.23383725+01  0.10519299+04  0.26830028+03  0.73534920+04  0.18100569+05 -0.53999998+01  0.17888796+01
 2   0.48635313+02  0.33584017+02  0.51347584+02  0.50643041+02  0.50379999+02  0.68219997+02  0.11468755+04  0.89261935+03
 3   0.31949664+03  0.73243333+03  0.75974578+02  0.19232570+03  0.             0.             0.39547122+03  0.92475904+03
 4   0.43699558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.21965985+01
 5   0.58995833+02  0.31467400+02  0.33450031+02  0.41652434-02  0.21002381+01 -0.51386135+03  0.31130918-00  0.73138016+00
 6   0.17041307+01  0.31576142+01  0.31018169+02  0.31687079+02 -0.67254448+00  0.69539703+02  0.             0.68173318+02

                  142.1861     194563.50      8244.059     25.36643      9427.441      21.84782     3944.20   95.438        25.34
                  280.2636   21104528.50     83167.882     24.41552     80151.210       1.51837       84.01    0.508         0.59
                   28.2456        42.73     34586.814      0.             305.729       7.81926      -13.71   -0.130      18090.89
 0.                0.15193663+01  0.82380992+04  0.45582835+06  0.85547714+00 -0.34364492-00 -0.38738251-00  0.31187511+02
 0.               -0.17100873-03  0.31682548+04  0.12504272+06  0.31192645-00  0.93909485+00 -0.14422308-00  0.71824630+02
 0.                0.10481383-02  0.33124808+04  0.21059235+08  0.41335104-00  0.25447189-02  0.91056743+00  0.65584482+02
 0.22412163+03 -0.22412163+03  0.34983834+04  0.10960609+01  0.74572790+00  0.37236010+04  0.27262527+03  0.60878105+08
 0.20886534+06  0.55358880+08  0.14704841+03  0.38516060+03
 1   0.29201493+02  0.25016472+01  0.35108162+02  0.26821066+03  0.73293868+04  0.18043493+05 -0.53999598+01  0.15183663+01
 2   0.48323926+02  0.30465502+02  0.50716784+02  0.47284238+02  0.50379999+02  0.68219997+02  0.11469571+04  0.89274599+03
 3   0.10663700+02  0.24444562+02  0.75558555+02  0.19225211+03  0.             0.             0.86621755+02  0.21669707+03
 4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21961311+01
 5   0.58995891+02  0.31488623+02  0.33450031+02  0.41077171-02  0.20674350+01 -0.60318442+03  0.36501114-00  0.85836759+00
 6   0.14428242+01  0.26725353+01  0.30923170+02  0.31672079+02 -0.73354340+00  0.69469704+02  0.             0.68174190+02

                  142.5361     195750.50      8254.958     25.30707      9435.102      21.80031     3965.47   95.444        24.35
                  280.2716   21105755.75     83143.788     24.41743     80050.350       1.29012       90.67    0.577         0.56
                   28.2449        43.15     16165.576      0.             270.545       7.85486      -13.09   -0.129      17452.01
 0.                0.12901235+01  0.82513894+04  0.45871408+06  0.85546740+00 -0.34363695-00 -0.38741104-00  0.31188589+02
 0.               -0.16352914-03  0.31731045+04  0.12615248+06  0.31191294-00  0.93909774+00 -0.14423348-00  0.71825450+02
 0.                0.11327098-02  0.33079647+04  0.21100394+08  0.41338139-00  0.25485671-02  0.91055362+00  0.65582572+02
 0.22356581+03 -0.22356581+03  0.35030808+04  0.10970049+01  0.74651071+00  0.37277436+04  0.27267975+03  0.60916091+08
 0.20058140+06  0.95470603+08  0.14709056+03  0.36707130+03
 1   0.23336942+02  0.25306676+01  0.             0.26813517+03  0.73009354+04  0.17971927+05 -0.53999998+01  0.12901235+01
 2   0.48061140+02  0.27889917+02  0.50184511+02  0.44505907+02  0.50379999+02  0.68219997+02  0.11470534+04  0.89290481+03
 3   0.             0.             0.75944608+02  0.19219057+03  0.             0.             0.75944608+02  0.19219057+03


CASE  1                          TRAJECTORY ID  -6 NOM                              SECTION  1                          PAGE  22
 4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21957547+01
 5   0.58596087+02  0.31562903+02  0.33450031+02  0.39117447-02  0.20770154+01 -0.67635117+03  0.40899458-00  0.96238529+00
 6   0.12223135+01  0.22627046+01  0.30590669+02  0.31619579+02 -0.94704437+00  0.69224703+02  0.             0.68177242+02

                  143.5361     195288.00      8279.306     25.13819      9465.630      21.66256     4023.26   95.460        21.67
                  280.2944   21109255.25     83123.594     24.42288     79775.820       1.09234      105.90    0.771         0.49
                   28.2430        44.36         0.          0.             270.479       7.95161      -11.46   -0.128      15719.23
 0.                0.10923420+01  0.82834897+04  0.46698197+06  0.85543559+00 -0.34361421-00 -0.38749259-00  0.31191666+02
 0.               -0.14359544-03  0.31848197+04  0.12973160+06  0.31187421-00  0.93910602+00 -0.14426321-00  0.71827783+02
 0.                0.13273572-02  0.32922436+04  0.21103694+08  0.41346812-00  0.25595599-02  0.91051419+00  0.65577115+02
 0.22195820+03 -0.22195820+03  0.35164407+04  0.11002748+01  0.74935189+00  0.37394592+04  0.27275780+03  0.61007307+08
 0.17939278+06  0.95660695+08  0.14720910+03  0.30731945+03
 1   0.18545008+02  0.25304211+01  0.             0.26806945+03  0.72249945+04  0.17779749+05 -0.53999998+01  0.10923420+01
 2   0.47828572+02  0.25795423+02  0.49718788+02  0.42235728+02  0.50379999+02  0.68219997+02  0.11473104+04  0.89333124+03
 3   0.             0.             0.75931295+02  0.19213816+03  0.             0.             0.75931295+02  0.19213816+03
 4   0.43699558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.21954726+01
 5   0.58596607+02  0.31775085+02  0.33450031+02  0.33971957-02  0.20689072+01 -0.73327135+03  0.44321154-00  0.10433059+01
 6   0.10267429+01  0.18974333+01  0.29640670+02  0.31469579+02 -0.15570440+01  0.68524703+02  0.             0.68185958+02
END DECAY
BEGIN DELAY

                  144.0300     200906.25      8289.166     25.06062      9476.496      21.59875     4048.33   95.467        20.51
                  280.3050   21110874.25      1715.956     24.42542     79655.078       1.09436      111.18    0.861         0.46
                   28.2421        44.92     81408.252      0.             268.920       7.99586      -10.82   -0.127      14964.53
 0.                0.10943594+01  0.82970803+04  0.47082750+06  0.85542668+00 -0.34360366-00 -0.38753042-00  0.31193094+02
 0.                0.38806367-02  0.31898433+04  0.13081009+06  0.31185625-00  0.93910986+00 -0.14427700-00  0.71828867+02
 0.                0.53840356-02  0.32844069+04  0.21105219+08  0.41350835-00  0.25646590-02  0.51049591+00  0.65574583+02
 0.22120304+03 -0.22120304+03  0.35226072+04  0.11025209+01  0.75272615+00  0.37449137+04  0.27277907+03  0.61045864+08
 0.16598422+06  0.95741716+08  0.14726316+03  0.30910398+03
 1   0.18787221+02  0.25304552+01  0.             0.26806980+03  0.71897730+04  0.17690624+05 -0.53999598+01  0.10943594+01
 2   0.47827441+02  0.25908378+02  0.49719639+02  0.42350477+02  0.50379999+02  0.68219997+02  0.11474296+04  0.89352900+03
 3   0.             0.             0.75930573+02  0.19213922+03  0.             0.             0.75930573+02  0.19213922+03
 4   0.43699558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.21955049+01
 5   0.58596815+02  0.31873486+02  0.33450031+02  0.31796453-02  0.20696031+01 -0.72838582+03  0.44027466-00  0.10363604+01
 6   0.10248375+01  0.18923955+01  0.29640670+02  0.31400000+02 -0.15570440+01  0.68200000+02  0.             0.68190002+02

                  144.8521     204011.50      8308.267     24.91222      9497.519      21.47671     4093.32   95.481        18.43
                  280.3254   21113981.50      1716.017     24.43028     79415.165       1.09825      118.73    1.032         0.40
                   28.2404        46.01     81409.312      0.             268.920       8.08247       -5.67   -0.127      13600.50
 0.                0.10982456+01  0.83232815+04  0.47824134+06  0.85540187+00 -0.34358336-00 -0.38760316-00  0.31195838+02
 0.                0.39314837-02  0.31995284+04  0.13366019+06  0.31182170-00  0.93911725+00 -0.14430352-00  0.71830951+02
 0.                0.55961281-02  0.32653829+04  0.21108142+08  0.41358572-00  0.25744671-02  0.91046073+00  0.65569714+02
 0.21973498+03 -0.21973498+03  0.35344129+04  0.11104041+01  0.75960176+00  0.37552581+04  0.27281798+03  0.61120022+08
 0.15908925+06  0.95585930+08  0.14736554+03  0.30910736+03
 1   0.15252581+02  0.25305327+01  0.             0.26807047+03  0.71220331+04  0.17519208+05 -0.53999998+01  0.10982456+01
 2   0.47824456+02  0.26125580+02  0.49721246+02  0.42571130+02  0.50379999+02  0.68219997+02  0.11476588+04  0.89390937+03
 3   0.             0.             0.75929184+02  0.19214129+03  0.             0.             0.75929184+02  0.19214129+03
 4   0.43699558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.21955671+01
 5   0.58997203+02  0.32062706+02  0.33450031+02  0.27961043-02  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
 6   0.10211360+01  0.18826237+01  0.29640670+02  0.31266179+02 -0.15570440+01  0.67575503+02  0.             0.68197780+02
END DELAY

                  144.8521     204011.50      8308.267     24.91222      9497.519      21.47671     4093.32   95.481        18.43
                  280.3254   21113981.50      1716.017     23.81969     72090.165       1.09825      118.73    1.032         0.40
                   28.2404        46.01         0.          0.60817       268.920       8.08247       -5.67   -0.127      13600.50
 0.                0.10982456+01  0.83232815+04  0.47824134+06  0.85594261+00 -0.35229754-00 -0.37847953-00  0.31135972+02
 0.60817327+00  0.39314837-02  0.31995284+04  0.13366019+06  0.32258978-00  0.93588528+00 -0.14091979-00  0.71162222+02
 0.58272614+00  0.55961281-02  0.32653829+04  0.21108142+08  0.40385572-00 -0.15878767-02  0.91481872+00  0.66180307+02
```

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CASE  1                                      TRAJECTORY ID  -6 ACP                                SECTION  1                              PAGE  23
 0.21573488+03 -0.21973488+03  0.35344129+04  0.11104041+01  0.75960176+00  0.37552581+04  0.27281798+03  0.61120022+08
 0.19308925+06  0.95885830+08  0.14736554+03  0.30910736+03
1   0.15252581+02  0.25305327+01  0.             0.26807047+03  0.71220331+04  0.17519208+05 -0.53999998+01  0.10982456+01
2   0.47824458+02  0.26125580+02  0.49771246+02  0.42571130+02  0.50379999+02  0.68219997+02  0.11476588+04  0.89390937+03
3   0.             0.             0.75929184+02  0.19214129+03  0.             0.             0.75929184+02  0.19214129+03
4   0.43695558+03 -0.75399996+01  0.75399996+01  0.             0.             0.             0.             0.21955671+01
5   0.58957203+02  0.32062706+02  0.33450031+02  0.27961043-02  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.10211360+01  0.18826237+01  0.25640670+02  0.31266179+02 -0.15570440+01  0.67575503+02  0.             0.68197780+02
```

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CASE  1                                      TRAJECTORY ID  -6 NOM                                SECTION  2                              PAGE  24
              TIME          ALTITUDE      VELOCITY RA   FLT PATH R    VELOCITY I    FLT PATH I    AXL FORCE     VEL R AZ        DYNM PRS
              LONGITUDE     R MAGNITUDE   THRST FIXED   PITCH ATT     WEIGHT        AXL LD FCTR   NORM FORCE    ALPHA           ATM PRS
              GEOCENT LAT   GRND RANGE    THRST CONTL   PITCH RATE    WEIGHT DOT    MACH NUMBER   SIDE FORCE    BETA            REY NUMB
ENGLISH UNITS
   CM XI              AC XI             VMU               RMU               L11               L12               L13               ACOL11
   DM ETA             AC ETA            VMV               RMV               L21               L22               L23               ACOL12
   CM ZET             AC ZET            VMW               RMW               L31               L32               L33               ACOL13
   D LOSS             G LOSS            P LOSS            ML ALF            PL BET            T LOSS            SP IMP            TOT IM
   H FLUX             H PARA            DBLOSS            IISP
1     NPSH              MIX               W.P               W.S               WF                WO                VALVE             ACS
2     PIPFB             PIPOB             PIPFS             PIPOS             FUDEN             OXDEN             F STA             O STA
3     W.FB              W.OB              W.FS              W.CS              W.FV              W.OV              W.F               W.O
4     THINC             FUINC             CXINC             CAPF              CAPO              CAPRA             IGFP              MIXRS
5     PF(F)             PG(O)             PVPC              PSUBA             BMIXR             BTHINC            BFUINC            BOXINC
6     DPF               DPO               WEDT              WSCI              WBHE              WSHE              EDO

              144.8921     204011.50      8255.029      24.91222      9457.519      21.47671     -404.12     95.481        18.19
              280.3254   21113981.50      1716.029      23.81969     72962.082       1.14798       28.96      0.251         0.40
               28.2404         46.01     81414.564       0.             268.937       8.03067       44.85      0.441     13513.35
 0.                0.11479817+01  0.83232815+04  0.47824134+06  0.85594261+00 -0.35229754-00 -0.37847953-00  0.31135972+02
 0.                0.31439796-02  0.31955284+04  0.13366019+06  0.32288978-00  0.93588528+00 -0.14091979-00  0.71162222+02
 0.                0.35646292-02  0.32653829+04  0.21108142+08  0.40385972-00 -0.15878767-02  0.91481872+00  0.66180307+02
 0.21573498+03 -0.21973488+03  0.35344129+04  0.11104041+01  0.75960176+00  0.37552581+04  0.30910838+03  0.61120022+08
 0.15016515+06  0.95885830+08  0.14736554+03  0.30910838+03
1   0.20554525+02  0.25306129+01  0.             0.26808668+03  0.71220321+04  0.17519208+05 -0.53999998+01  0.11479817+01
2   0.             0.             0.49835258+02  0.43187737+02  0.50379999+02  0.68219997+02  0.11476588+04  0.89390937+03
3   0.             0.             0.75932051+02  0.19215463+03  0.             0.             0.75932051+02  0.19215463+03
4   0.43655558+03 -0.75359996+01  0.75399596+01  0.             0.             0.             0.             0.21956529+01
5   0.58957209+02  0.32062706+02  0.33450031+02  0.27961043-02  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.10673121+01  0.19677565+01  0.             0.31266179+02  0.             0.67575503+02  0.             0.68197780+02

              145.0000     204386.25      8257.583      24.89402      9500.247      21.46175     -398.91     95.483        17.96
              280.3279   21114356.25      1716.037      23.82032     72033.074       1.14852       30.67      0.272         0.40
               28.2401         46.14     81414.701       0.             268.937       8.04145       44.28      0.441     13357.38
 0.                0.11485182+01  0.83266082+04  0.47913927+06  0.85593764+00 -0.35229944-00 -0.37848894-00  0.31136522+02
 0.                0.31315820-02  0.32037578+04  0.13400536+06  0.32289032-00  0.93588454+00 -0.14092334-00  0.71162190+02
 0.                0.36064646-02  0.32675570+04  0.21108495+08  0.40386579-00 -0.15887825-02  0.91481426+00  0.66179678+02
 0.21975424+03 -0.21975424+03  0.35358354+04  0.11107798+01  0.75985771+00  0.37567004+04  0.30910784+03  0.61128989+08
 0.14827503+06  0.95501924+08  0.14737778+03  0.30910877+03
1   0.20614272+02  0.25306219+01  0.             0.26809680+03  0.71138430+04  0.17498482+05 -0.53999998+01  0.11485182+01
2   0.             0.             0.49835727+02  0.43216042+02  0.50379999+02  0.68219997+02  0.11476865+04  0.89395535+03
3   0.             0.             0.75531892+02  0.19215491+03  0.             0.             0.75931892+02  0.19215491+03
4   0.43695558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21956605+01
5   0.58557246+02  0.32095580+02  0.33450031+02  0.27526616-02  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.10669503+01  0.19667152+01  0.             0.31250000+02  0.             0.67500000+02  0.             0.68198720+02

              150.0000     221607.75      8379.113      24.06853      9625.600      20.78541     -213.03     95.548         9.59
              280.4439   21131587.75      1716.370      23.95242     70688.380       1.17307       72.70      1.351         0.19
               28.2303         52.31     81419.659      -0.63021       268.941       8.57675       25.12      0.472      7630.78
-0.14118614-02  0.11730698+01  0.84823460+04  0.52116044+06  0.85486533+00 -0.35277745-00 -0.38046194-00  0.31255138+02
-0.63020950+00  0.27280430-02  0.32601500+04  0.15015738+06  0.32308734-00  0.93570401+00 -0.14166836-00  0.71150263+02
 0.27286161-00  0.47307049-02  0.31855314+04  0.21124627+08  0.40597780-00 -0.18150353-02  0.91388025+00  0.66047584+02
 0.22042783+03 -0.22042783+03  0.36006234+04  0.11591941+01  0.80279522+00  0.38222204+04  0.30911513+03  0.61544655+08
 0.80348452+05  0.96459214+08  0.14791454+03  0.30912340+03
1   0.21601047+02  0.25310369+01  0.             0.26809118+03  0.67342026+04  0.16537677+05 -0.53999598+01  0.11730698+01
2   0.             0.             0.49847713+02  0.43683519+02  0.50379999+02  0.68219998+02  0.11489836+04  0.89609266+03
3   0.             0.             0.75924207+02  0.19216697+03  0.             0.             0.75924207+02  0.19216697+03
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CASE  1                              TRAJECTORY ID  -6 NOP                                   SECTION  2                             PAGE  25
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21960129+01
5   0.58998707+02  0.32348707+02  0.33450023+02  0.12922376-02  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.10453588+01  0.19097760+01  0.             0.30500000+02  0.             0.64000001+02  0.             0.68242308+02

              158.0000     238552.50     8506.157     23.31723     9763.682     20.17212     -107.32    95.596       4.83
              280.5622   21148543.25     1716.592     26.65073    69343.989      1.19678      144.38     4.931       0.08
               28.2201         58.60    81380.974      0.22020      268.815      9.19286       36.63     1.476    4151.69
 0.18263210-03  0.11567798+01  0.86377577+04  0.56396203+06  0.82956247+00 -0.36774585-00 -0.42021903-00  0.33946180+02
 0.22020447-00  0.30231521-02  0.33220191+04  0.16661157+06  0.33260564-00  0.92987583+00 -0.15716769-00  0.70572996+02
-0.81175594-01  0.64618826-02  0.31116119+04  0.21140366+08  0.44855063-00 -0.93867829-02  0.89370718+00  0.63349266+02
 0.22080536+03 -0.22080536+03  0.36632855+04  0.16830025+01  0.12862504+01  0.38857739+04  0.30912663+03  0.61960238+08
 0.41053392+05  0.56753877+08  0.14839891+03  0.30912565+03
1   0.22310362+02  0.25308061+01  0.             0.26796479+03  0.63546585+04  0.15577081+05 -0.53999598+01  0.11967798+01
2   0.             0.             0.48938445+02  0.43926803+02  0.50379999+02  0.68233123+02  0.11503053+04  0.89824875+03
3   0.             0.             0.75893376+02  0.19207142+03  0.             0.             0.75893376+02  0.19207142+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21956737+01
5   0.58082765+02  0.32399432+02  0.33355236+02  0.56668819-03  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.10204118+01  0.18468607+01  0.             0.29750000+02  0.             0.69500000+02  0.             0.68285897+02

              160.0000     255262.25     8638.603     22.61054     9902.647     19.59621      -50.25    95.642       2.26
              280.6829   21165263.50     1716.532     25.54048    68000.238      1.22066       62.90     4.649       0.03
               28.2096         65.02    81339.720      0.33546      268.685      9.91285       12.69     1.079    2124.98
-0.52272874-03  0.12206637+01  0.87952141+04  0.60754248+06  0.83996162+00 -0.36228601-00 -0.40399395-00  0.32863932+02
 0.33546415-00  0.25369135-02  0.33852725+04  0.18337952+06  0.32950469-00  0.93204266+00 -0.15073255-00  0.70761284+02
-0.46561799-01  0.47843240-02  0.30430144+04  0.21155748+08  0.43114861-00 -0.65083235-02  0.90225649+00  0.64459523+02
 0.22100402+03 -0.22100402+03  0.37239736+04  0.25623167+01  0.21171880+01  0.39475359+04  0.30913006+03  0.62375621+08
 0.15538023+05  0.96900036+08  0.14884020+03  0.30912077+03
1   0.23015840+02  0.25302068+01  0.             0.26783540+03  0.59752509+04  0.14616987+05 -0.53999998+01  0.12206637+01
2   0.             0.             0.48026496+02  0.44168390+02  0.50379999+02  0.68246248+02  0.11516616+04  0.90040167+03
3   0.             0.             0.75869606+02  0.19196580+03  0.             0.             0.75869606+02  0.19196580+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21950226+01
5   0.57166437+02  0.32449771+02  0.33760441+02  0.22816397-03  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.55253634+00  0.17802895+01  0.             0.29000000+02  0.             0.57000001+02  0.             0.68290442+02

              165.0000     271741.50     8776.933     21.90863    10047.251     19.02314      -20.23    95.696       0.91
              280.8061   21181754.00     1716.468     24.61849    66657.135      1.24508       24.71     4.555       0.01
               28.1989         71.57    81298.077      0.09465      268.556     10.36845        4.46     0.934     887.71
 0.14016578-03  0.12450849+01  0.89576186+04  0.65192276+06  0.84716567+00 -0.36037795-00 -0.39042155-00  0.32094850+02
 0.94652670-01  0.24094693-02  0.34495543+04  0.20046586+06  0.32979512-00  0.93278795+00 -0.14538314-00  0.70743416+02
-0.29824257-01  0.43480587-02  0.29681136+04  0.21170770+08  0.41657411-00 -0.55564695-02  0.90908355+00  0.65381514+02
 0.22109251+03 -0.22109251+03  0.37827376+04  0.33318324+01  0.28557570+01  0.40071615+04  0.30913052+03  0.62790798+08
 0.75525737+04  0.96966013+08  0.14924483+03  0.30911461+03
1   0.23726524+02  0.25296065+01  0.             0.26770584+03  0.55559623+04  0.13657422+05 -0.53999598+01  0.12450849+01
2   0.             0.             0.47112953+02  0.44412582+02  0.50379599+02  0.68259373+02  0.11530415+04  0.90255252+03
3   0.             0.             0.75845801+02  0.19186004+03  0.             0.             0.75845801+02  0.19186004+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21943705+01
5   0.56749915+02  0.32499915+02  0.33165653+02  0.84039789-04  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.56227182+00  0.17104702+01  0.             0.28250000+02  0.             0.53500000+02  0.             0.68294986+02

              170.0000     287591.25     8521.056     21.22466    10157.430     18.46422       -7.74    95.754       0.35
              280.5317   21198015.00     1716.409     23.89059    65314.656      1.27027        9.67     4.641       0.00
               28.1878         78.25    81259.289      0.08553      268.436     10.53871        1.77     0.972     334.25
-0.17244054-03  0.12702730+01  0.91242003+04  0.69712562+06  0.85174230+00 -0.36111207-00 -0.37964552-00  0.31598318+02
 0.85525692-01  0.24140605-02  0.35148927+04  0.21787623+06  0.33243760-00  0.93250152+00 -0.14114930-00  0.70583205+02
-0.14772554-01  0.38299728-02  0.28951830+04  0.21185429+08  0.40499146-00 -0.59855598-02  0.51429984+00  0.66109406+02
 0.22112757+03 -0.22112757+03  0.38396055+04  0.41587199+01  0.36605775+01  0.40648918+04  0.30912934+03  0.63205772+08
 0.31050524+04  0.56551514+08  0.14561778+03  0.30910841+03

CASE  1                              TRAJECTORY ID  -6 NOP                                   SECTION  2                             PAGE  26
1   0.24342481+02  0.25290518+01  0.             0.26758555+03  0.52167885+04  0.12698367+05 -0.53999998+01  0.12702730+01
2   0.             0.             0.46264626+02  0.44611983+02  0.50379999+02  0.68272498+02  0.11544509+04  0.90470168+03
3   0.             0.             0.75823639+02  0.19176192+03  0.             0.             0.75823639+02  0.19176192+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21937671+01
5   0.55399968+02  0.32459968+02  0.33070858+02  0.31132323-04  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.52954073+00  0.16375468+01  0.             0.27500000+02  0.             0.50000001+02  0.             0.68299532+02

              171.6501     293304.75     8969.908     21.00278    10248.208     18.28277       -5.66    95.774       0.25
              280.5737   21203332.50     1716.408     23.83843    64871.713      1.27890        7.47     4.854       0.00
               28.1849         80.48    81254.061     -0.04180      268.419     10.59642        1.22     0.915     242.98
 0.55475672-03  0.12788979+01  0.91800559+04  0.71222784+06  0.85242365+00 -0.36032468-00 -0.37886359-00  0.31523734+02
-0.41803024-01  0.24244995-02  0.35368740+04  0.22369441+06  0.33170363-00  0.93280838+00 -0.14084801-00  0.70627787+02
-0.60667835-01  0.38205967-02  0.28710384+04  0.21190187+08  0.40415887-00 -0.56082395-02  0.91467056+00  0.66161569+02
 0.22113360+03 -0.22113360+03  0.38579651+04  0.44459310+01  0.29396937+01  0.40835446+04  0.30912825+03  0.63342688+08
 0.22849197+04  0.56956335+08  0.14573465+03  0.30910767+03
1   0.24551629+02  0.25289848+01  0.             0.26756927+03  0.50916716+04  0.12381944+05 -0.53999998+01  0.12788979+01
2   0.             0.             0.46145337+02  0.44680601+02  0.50379999+02  0.68276829+02  0.11549302+04  0.90541103+03
3   0.             0.             0.75820467+02  0.19174881+03  0.             0.             0.75820467+02  0.19174881+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21936922+01
5   0.55284467+02  0.32499976+02  0.33039577+02  0.22507834-04  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.51758100+00  0.16129252+01  0.             0.27252479+02  0.             0.48844904+02  0.             0.68301032+02
WEIGHT JETTISONED AT THIS POINT

              172.0000     294428.00     8980.484     20.95631    10259.186     18.24481       -5.30    95.778       0.24
              280.5826   21204456.25     1716.413     23.85522    63552.804      1.30546        7.12     4.926       0.00
               28.1832         80.96    81255.321     -0.05709      268.423     10.60891        1.12     0.893     227.15
-0.42558737-03  0.13054644+01  0.91920657+04  0.71544168+06  0.85244418+00 -0.36001646-00 -0.37911031-00  0.31521484+02
-0.57091061-01  0.24739062-02  0.35415866+04  0.22493265+06  0.33132382-00  0.93292827+00 -0.14094786-00  0.70650853+02
 0.70422573-01  0.38555493-02  0.28660600+04  0.21151190+08  0.40442700-00 -0.54580841-02  0.91455293+00  0.66144774+02
 0.22113468+03 -0.22113468+03  0.38618219+04  0.45114302+01  0.40036459+01  0.40874780+04  0.30912793+03  0.63371716+08
 0.21410876+04  0.56557113+08  0.14575505+03  0.30910794+03
1   0.25220146+02  0.25290067+01  0.             0.26757313+03  0.50651450+04  0.12314855+05 -0.53999998+01  0.13054644+01
2   0.             0.             0.46176305+02  0.44991102+02  0.50379999+02  0.68277748+02  0.11550327+04  0.90556141+03
3   0.             0.             0.75821087+02  0.19175204+03  0.             0.             0.75821087+02  0.19175204+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21937151+01
5   0.55255577+02  0.32499978+02  0.33032943+02  0.21016570-04  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.53315092+00  0.16386958+01  0.             0.27200001+02  0.             0.48600002+02  0.             0.68301349+02

              173.0000     297633.25     9011.267     20.82480    10291.103     18.13753       -4.39    95.789       0.20
              281.0082   21207664.00     1716.412     23.91771    63284.387      1.31097        6.22     5.147       0.00
               28.1809         82.32    81252.155      0.20609      268.413     10.64528        0.99     0.963     187.44
-0.14114574-02  0.13109659+01  0.92268056+04  0.72465111+06  0.85157657+00 -0.36107852-00 -0.38004892-00  0.31616436+02
 0.20608435-00  0.24857035-02  0.35552383+04  0.22848105+06  0.33233455-00  0.93251458+00 -0.14130536-00  0.70589462+02
 0.10076454-00  0.39007106-02  0.28518649+04  0.21194049+08  0.40542423-00 -0.59710441-02  0.91410808+00  0.66082284+02
 0.22113744+03 -0.22113744+03  0.38728357+04  0.47116572+01  0.41991463+01  0.40956847+04  0.30912740+03  0.63454686+08
 0.17785121+04  0.56999072+08  0.14582811+03  0.30910749+03
1   0.25352301+02  0.25289661+01  0.             0.26756328+03  0.49893250+04  0.12123112+05 -0.53999998+01  0.13109659+01
2   0.             0.             0.46106561+02  0.45035271+02  0.50379999+02  0.68280372+02  0.11553255+04  0.90599120+03
3   0.             0.             0.75819167+02  0.19174411+03  0.             0.             0.75819167+02  0.19174411+03
4   0.43699558+03 -0.79399556+01  0.79399996+01  0.             0.             0.             0.             0.21936696+01
5   0.55185591+02  0.32495982+02  0.33013988+02  0.17283182-04  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.52589272+00  0.16234007+01  0.             0.27050000+02  0.             0.47900002+02  0.             0.68302259+02

              175.0000     304019.25     9073.559     20.56448    10355.630     17.92511       -2.93    95.812       0.13
              281.0598   21214055.00     1716.410     23.53023    62747.580      1.32210        4.08     5.074       0.00
               28.1763         85.07    81245.823      0.11380      268.394     10.56166        0.74     1.079     121.32
 0.25683057-03  0.13221034+01  0.92967238+04  0.74317451+06  0.85334364+00 -0.36289565-00 -0.37431125-00  0.31422773+02
 0.11375760-00  0.25095925-02  0.35829023+04  0.23561911+06  0.33528416-00  0.93180270+00 -0.13901495-00  0.70410182+02
-0.72825295-01  0.39045670-02  0.28236181+04  0.21199725+08  0.39923289-00 -0.68731012-02  0.51682272+00  0.66469766+02
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CASE  1                          TRAJECTORY ID  -6 ACM                                  SECTION  2                                  PAGE  27
 0.22114164+03 -0.22114164+03  0.38946279+04  0.51278317+01  0.46032105+01  0.41208973+04  0.30912633+03  0.63620616+08
 0.11560052+04  0.57902923+08  0.14996328+03  0.30910658+03
1   0.25618883+02  0.25288850+01  0.             0.26754357+03  0.48376904+04  0.11739629+05 -0.53999598+01  0.13221034+01
2   0.             0.             0.45967069+02  0.45174691+02  0.50379999+02  0.68285622+02  0.11559110+04  0.90685025+03
3   0.             0.             0.75815327+02  0.19172825+03  0.             0.             0.75815327+02  0.19172825+03
4   0.43699558+03 -0.79399996+01  0.75399996+01  0.             0.             0.             0.             0.21935790+01
5   0.55049587+02  0.32455588+02  0.32976070+02  0.11750284-04  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.91118735+00  0.15924370+01  0.             0.26750001+02  0.             0.46500003+02  0.             0.68304077+02

               180.0000    319842.50     9233.628    19.92831    10521.087     17.40567      -1.12    95.871       0.05
               281.1906  21229890.25     1716.404    23.03964    61405.735      1.35076       1.67     5.353       0.00
                28.1645        92.??    81229.900     0.38720     268.344      10.20953       0.25     0.945      41.07
 0.51458850-03  0.13507640+01  0.94746985+04  0.79010125+06  0.85728057+00 -0.36110544-00 -0.36697362-00  0.90987351+02
 0.87159668-01  0.25779452-02  0.36529452+04  0.25370822+06  0.33451188-00  0.93250366+00 -0.13614545-00  0.70457142+02
-0.58358572-01  0.35888113-02  0.27530615+04  0.21213666+08  0.29136785-00 -0.60421127-02  0.92021336+00  0.66960361+02
 0.22114714+03 -0.22114714+03  0.39478711+04  0.62368606+01  0.56876259+01  0.41752550+04  0.30912403+03  0.64035387+08
 0.46746565+03  0.57005874+08  0.15028494+03  0.30910423+03
1   0.26259843+02  0.25286805+01  0.             0.26745408+03  0.44586378+04  0.10781057+05 -0.53999598+01  0.13507640+01
2   0.             0.             0.45616663+02  0.45354738+02  0.50379999+02  0.68298747+02  0.11574170+04  0.90899634+03
3   0.             0.             0.75805689+02  0.19168840+03  0.             0.             0.75805689+02  0.19168840+03
4   0.43655558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.21933909+01
5   0.54699994+02  0.32499554+02  0.32881279+02  0.48356675-05  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.87163325+00  0.15126940+01  0.             0.26000001+02  0.             0.43000002+02  0.             0.68308623+02

               185.0000    335470.50     9399.944    19.31530    10692.497     16.90478      -0.48    95.934       0.02
               281.3242  21245530.50     1716.359    22.47646    60064.270      1.38039       0.75     5.538       0.00
                28.1524        99.14    81156.787     0.02628     268.242       9.92781       0.09     0.793      16.26
-0.53772043-03  0.13803902+01  0.96571501+04  0.83752097+06  0.86173270+00 -0.35900228-00 -0.35851283-00  0.30480309+02
 0.26285503-01  0.26568033-02  0.37243766+04  0.27215091+06  0.33355369-00  0.93332095+00 -0.13285582-00  0.70515386+02
 0.73244460-01  0.41116691-02  0.26829043+04  0.21227256+08  0.38230381-00 -0.50570515-02  0.92402144+00  0.67523539+02
 0.22114944+03 -0.22114944+03  0.39993952+04  0.74773414+01  0.69089120+01  0.42283219+04  0.30912255+03  0.64450034+08
 0.20323668+03  0.57007449+08  0.15058565+03  0.30905874+03
1   0.26571485+02  0.25282135+01  0.             0.26739158+03  0.40756566+04  0.98228635+04 -0.53599598+01  0.13803902+01
2   0.             0.             0.44893289+02  0.45581449+02  0.50379599+02  0.68311872+02  0.11589813+04  0.91114090+03
3   0.             0.             0.75786670+02  0.19160491+03  0.             0.             0.75786670+02  0.19160491+03
4   0.43655558+03 -0.79399596+01  0.79399996+01  0.             0.             0.             0.             0.21928414+01
5   0.53979557+02  0.32489556+02  0.32786491+02  0.21868887-05  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.82779233+00  0.14291400+01  0.             0.25250001+02  0.             0.39500003+02  0.             0.68313167+02

               190.0000    350512.25     9572.628    18.72499    10870.009     16.42203      -0.22    95.997       0.01
               281.4605  21260585.25     1716.312    22.02938    58723.319      1.41135       0.36     5.823       0.00
                28.1358       106.40    81163.519     0.11035     268.139       9.66783       0.05     1.042       6.06
-0.43884798-03  0.14113484+01  0.98440538+04  0.88668015+06  0.86283454+00 -0.36294723-00 -0.35182825-00  0.30363648+02
 0.11034506-00  0.27418053-02  0.37978396+04  0.29095542+06  0.33886212-00  0.98178240+00 -0.13019476-00  0.70192436+02
 0.13955187-01  0.42524192-02  0.26130661+04  0.21240496+08  0.27508153-00 -0.68847170-02  0.92696487+00  0.67970622+02
 0.22115050+03 -0.22115050+03  0.40492588+04  0.88530430+01  0.82620037+01  0.42752623+04  0.30912081+03  0.64864515+08
 0.54858893+02  0.57008159+08  0.15086780+03  0.30909319+03
1   0.27666537+02  0.25277444+01  0.             0.26728861+03  0.37007710+04  0.88650482+04 -0.53999598+01  0.14113484+01
2   0.             0.             0.44166591+02  0.45818888+02  0.50379999+02  0.68324957+02  0.11606230+04  0.91328300+03
3   0.             0.             0.75767566+02  0.19152104+03  0.             0.             0.75767566+02  0.19152104+03
4   0.43699558+03 -0.79399956+01  0.75399996+01  0.             0.             0.             0.             0.21923292+01
5   0.53259558+02  0.32479558+02  0.32691696+02  0.10676899-05  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6   0.77880812+00  0.13419333+01  0.             0.24500000+02  0.             0.36000004+02  0.             0.68317713+02

               195.0000    366178.25     9751.855    18.15654    11053.814     15.95673      -0.09    96.058       0.00
               281.5958  21276264.25     1716.266    21.39261    57382.885      1.44373       0.16     5.895       0.00
                28.1268       113.81    81130.015     0.13723     268.035       8.34546       0.02     0.873       2.19


CASE  1                          TRAJECTORY ID  -6 ACM                                  SECTION  2                                  PAGE  28
 0.20879810-03  0.14437341+01  0.10035606+05  0.93637714+06  0.86766177+00 -0.36063670-00 -0.34220087-00  0.29811951+02
 0.13723050-00  0.28302085-02  0.38735534+04  0.31013334+06  0.33780616-00  0.93268575+00 -0.12641558-00  0.70256729+02
-0.77806377-01  0.44027621-02  0.25434183+04  0.21253387+08  0.36475665-00 -0.55115655-02  0.53108287+00  0.68607389+02
 0.22115096+03 -0.22115096+03  0.40975217+04  0.10351104+02  0.97326191+01  0.43250237+04  0.30911889+03  0.65278828+08
 0.40742100+02  0.57008470+08  0.15113344+03  0.30908759+03
1   0.28385530+02  0.25272711+01  0.             0.26718492+03  0.33219811+04  0.79076538+04 -0.53999998+01  0.14437341+01
2   0.             0.             0.43434841+02  0.46067830+02  0.50379999+02  0.68338123+02  0.11623776+04  0.91542325+03
3   0.             0.             0.75748338+02  0.19143658+03  0.             0.             0.75748338+02  0.19143658+03
4   0.43655558+03 -0.79399556+01  0.75399596+01  0.             0.             0.             0.             0.21918131+01
5   0.52539998+02  0.32469558+02  0.32596900+02  0.60499710-06  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.72287253+00  0.12537899+01  0.             0.23750000+02  0.             0.32500003+02  0.             0.68322258+02

               196.5001    370725.25     9806.956    17.98925    11110.244     15.81965      -0.08    96.078       0.00
               281.6421  21280815.50     1716.252    21.22115    56980.819      1.45374       0.13     5.534       0.00
                28.1229       116.07    81119.898     0.08085     268.004       8.06190       0.01     0.810       1.66
-0.38126308-03  0.14537438+01  0.10054174+05  0.95147582+06  0.86905444+00 -0.35574418-00 -0.33959639-00  0.29651055+02
 0.80845970-01  0.28575627-02  0.38564947+04  0.31596141+06  0.33722450-00  0.93303265+00 -0.12540449-00  0.70292133+02
 0.35355050-01  0.44458156-02  0.25223586+04  0.21257187+08  0.36196877-00 -0.55368678-02  0.53217254+00  0.68778846+02
 0.22115104+03 -0.22115104+03  0.41116578+04  0.10801565+02  0.10177563+02  0.43436503+04  0.30911821+03  0.65403102+08
 0.33285710+02  0.57008525+08  0.15121018+03  0.30908550+03
1   0.28606133+02  0.25271280+01  0.             0.26715361+03  0.32083523+04  0.76204912+04 -0.53999998+01  0.14537438+01
2   0.             0.             0.43213882+02  0.46144865+02  0.50379999+02  0.68342061+02  0.11629350+04  0.91606528+03
3   0.             0.             0.75742532+02  0.19141108+03  0.             0.             0.75742532+02  0.19141108+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21916571+01
5   0.52323578+02  0.32466558+02  0.32568467+02  0.52698655-06  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.70421057+00  0.12226208+01  0.             0.23524980+02  0.             0.31449903+02  0.             0.68323621+02
WEIGHT JETTISONED AT THIS POINT

               197.0000    372237.00     9825.877    17.93425    11125.601     15.77467      -0.07    96.085       0.00
               281.6563  21282328.00     1716.258    21.18355    54841.856      1.51046       0.12     5.966       0.00
                28.1215       116.82    81121.051     0.12868     268.007       7.97577       0.01     0.827       1.53
-0.47857431-03  0.15104644+01  0.10114160+05  0.95652644+06  0.86916155+00 -0.36002044-00 -0.33902889-00  0.29638642+02
 0.12868458-00  0.29717436-02  0.39043223+04  0.31791104+06  0.33760427-00  0.93292537+00 -0.12518061-00  0.70269019+02
 0.31023705-01  0.46251820-02  0.25155601+04  0.21258446+08  0.36135695-00 -0.56554038-02  0.53240917+00  0.68916445+02
 0.22115106+03 -0.22115106+03  0.41163526+04  0.10957298+02  0.10331443+02  0.43484990+04  0.30911788+03  0.65444508+08
 0.31250004+02  0.57008541+08  0.15123546+03  0.30908615+03
1   0.25578587+02  0.25271456+01  0.             0.26715713+03  0.31704922+04  0.75248149+04 -0.53999598+01  0.15104644+01
2   0.             0.             0.43238454+02  0.46787213+02  0.50379999+02  0.68343373+02  0.11631257+04  0.91627917+03
3   0.             0.             0.75743067+02  0.19141407+03  0.             0.             0.75743067+02  0.19141407+03
4   0.43699958+03 -0.79399996+01  0.79399596+01  0.             0.             0.             0.             0.21916792+01
5   0.52251598+02  0.32465558+02  0.32558983+02  0.50454476-06  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.72328753+00  0.12575703+01  0.             0.23450001+02  0.             0.31100002+02  0.             0.68324076+02

               198.0000    375257.00     9864.796    17.82542    11169.381     15.68588      -0.06    96.098       0.00
               281.6847  21285351.00     1716.248    21.06048    54573.861      1.51776       0.11     5.981       0.00
                28.1188       118.34    81114.301     0.12073     267.986       7.81460       0.01     0.863       1.29
-0.24763633-03  0.15177581+01  0.10155042+05  0.96666103+06  0.86964612+00 -0.36059746-00 -0.33716796-00  0.29582456+02
 0.12073389-00  0.29914819-02  0.39203576+04  0.32182328+06  0.32849400-00  0.93270094+00 -0.12444805-00  0.70214852+02
-0.75567506-02  0.46630704-02  0.25021986+04  0.21260554+08  0.35935324-00 -0.55035405-02  0.53318169+00  0.68939517+02
 0.22115111+03 -0.22115111+03  0.41257337+04  0.11278292+02  0.10648387+02  0.43581630+04  0.30911747+03  0.65527342+08
 0.23690728+02  0.57008570+08  0.15128563+03  0.30908503+03
1   0.30136435+02  0.25270542+01  0.             0.26713625+03  0.30947512+04  0.73334102+04 -0.53999558+01  0.15177581+01
2   0.             0.             0.43091024+02  0.46843535+02  0.50379999+02  0.68345997+02  0.11635073+04  0.91672263+03
3   0.             0.             0.75739194+02  0.19139705+03  0.             0.             0.75739194+02  0.19139705+03
4   0.43699558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21915751+01
5   0.52107559+02  0.32463558+02  0.32540027+02  0.46401881-06  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.70589527+00  0.12370704+01  0.             0.23300000+02  0.             0.30400003+02  0.             0.68324985+02
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CASE  1                      TRAJECTORY ID  -6 NOP                         SECTION  2                         PAGE  29

                  200.0000    381279.50     9943.508     17.61039    11249.789     15.51036      -0.05   96.124          0.00
                  281.7420  21291379.00     1716.229     20.84490    54037.931      1.53256       0.09    6.038          0.00
                   28.1134       121.39    81100.796      0.09365      267.944      7.52851       0.01    0.894          0.96
 0.14842633-03  0.15325606+01  0.10237474+05  0.98705939+06  0.87124513+00 -0.35978729-00 -0.33388942-00  0.29396343+02
 0.53653817-01  0.30314381-02  0.39526996+04  0.32969639+06  0.33809392-00  0.93301576+00 -0.12316902-00  0.70239212+02
-0.63640904-01  0.47318497-02  0.24754854+04  0.21265932+08  0.35583945-00 -0.55755495-02  0.83452922+00  0.69155098+02
 0.22115119+03 -0.22115119+03  0.41442399+04  0.11932174+02  0.11294192+02  0.43773232+04  0.30911665+03  0.65692989+08
 0.22158866+02  0.57008619+08  0.15138435+03  0.30908276+03
1   0.30454424+02  0.25268631+01  0.             0.26709445+03  0.29432806+04  0.69506501+04 -0.53999598+01  0.15325606+01
2   0.             0.             0.42796072+02  0.46957655+02  0.50379999+02  0.68351247+02  0.11642703+04  0.91761351+03
3   0.             0.             0.75731446+02  0.19136300+03  0.             0.             0.75731446+02  0.19136300+03
4   0.43699998+03 -0.75399996+01  0.75399996+01  0.             0.             0.             0.             0.21913668+01
5   0.51819999+02  0.32459999+02  0.32502113+02  0.39716630-06  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.68272299+00  0.11952253+01  0.                             0.23000000+02  0.             0.29000004+02  0.             0.68326803+02

                  205.0000    356239.00    10145.463     17.08884    11455.818     15.08443      -0.03   96.191          0.00
                  281.8873  21306352.50     1716.181     20.10438    52698.472      1.57087       0.05    5.966          0.00
                   28.0956       129.13    81066.687      0.03417      267.839      6.97134       0.01    0.830          0.50
-0.16335747-03  0.15708662+01  0.10447527+05  0.10387634+07  0.87523089+00 -0.36039275-00 -0.32262214-00  0.28927686+02
 0.34171470-01  0.31593522-02  0.40351149+04  0.34966464+06  0.34031871-00  0.93278025+00 -0.11874609-00  0.70103706+02
 0.22935230-01  0.49215108-02  0.26088586+04  0.21278144+08  0.34373149-00 -0.58640907-02  0.53904839+00  0.65895619+02
 0.22115132+03 -0.22115132+03  0.41858808+04  0.13659015+02  0.12991826+02  0.44242822+04  0.30911454+03  0.66106987+08
 0.13857429+02  0.57008705+08  0.15162221+03  0.30907704+03
1   0.31251864+02  0.25263800+01  0.             0.26698889+03  0.25646721+04  0.59940496+04 -0.53999598+01  0.15708662+01
2   0.             0.             0.42051174+02  0.47244222+02  0.50379999+02  0.68364373+02  0.11663290+04  0.91998683+03
3   0.             0.             0.75711887+02  0.19127700+03  0.             0.             0.75711887+02  0.19127700+03
4   0.43699998+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21908402+01
5   0.51059999+02  0.32449999+02  0.32407318+02  0.28437791-06  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6   0.60550420+00  0.10778381+01  0.                             0.22250000+02  0.             0.25500003+02  0.             0.68331348+02

                  210.0000    411066.00    10355.139     16.58550    11665.372     14.67277      -0.02   96.259          0.00
                  282.0359  21321194.75     1716.172     19.54371    51355.413      1.61148       0.04    6.059          0.00
                   28.0853       137.05    81049.135      0.11245      267.784      6.56763       0.00    0.824          0.30
-0.54355805-03  0.16114803+01  0.10663796+05  0.10915390+07  0.87829158+00 -0.36051936-00 -0.31404891-00  0.28563039+02
 0.11244542-00  0.32746614-02  0.41195015+04  0.37005128+06  0.34160443-00  0.93273087+00 -0.11539470-00  0.70025344+02
 0.70878515-01  0.51200545-02  0.23418161+04  0.21290020+08  0.33452583-00 -0.59302936-02  0.54236664+00  0.70456292+02
 0.22115141+03 -0.22115141+03  0.42332993+04  0.15392571+02  0.14715243+02  0.44658432+04  0.30911203+03  0.66520857+08
 0.95022973+01  0.57008760+08  0.15184832+03  0.30907434+03
1   0.32040315+02  0.25261506+01  0.             0.26693441+03  0.21861389+04  0.50377740+04 -0.53999598+01  0.16114803+01
2   0.             0.             0.41665644+02  0.47526673+02  0.50379999+02  0.68377497+02  0.11685992+04  0.92268418+03
3   0.             0.             0.75701364+02  0.19123305+03  0.             0.             0.75701364+02  0.19123305+03
4   0.43699998+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.             0.21905850+01
5   0.50749999+02  0.32437458+02  0.32312530+02  0.21565671-06  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6   0.51449867+00  0.93391623+00  0.                             0.21500000+02  0.             0.22000004+02  0.             0.68335892+02

                  215.0000    425770.50    10572.827     16.10115    11890.749     14.27614      -0.01   96.328          0.00
                  282.1878  21335914.00     1716.161     18.80309    50020.632      1.65424       0.02    5.956          0.00
                   28.0705       145.15    81030.810      0.18089      267.728      6.26427       0.00    0.804          0.19
-0.38575151-03  0.16542441+01  0.10886437+05  0.11454117+07  0.88230442+00 -0.36044335-00 -0.30268209-00  0.28078394+02
 0.18088782-00  0.34041656-02  0.42074618+04  0.39086872+06  0.34299841-00  0.93276015+00 -0.11093660-00  0.69940341+02
 0.14153278-01  0.53269152-02  0.22743517+04  0.21301561+08  0.32231683-00 -0.59356218-02  0.94661189+00  0.71196905+02
 0.22115147+03 -0.22115147+03  0.42757463+04  0.17170624+02  0.16471574+02  0.45140684+04  0.30910965+03  0.66934636+08
 0.65584425+01  0.57008799+08  0.15206377+03  0.30907151+03
1   0.32758100+02  0.25259092+01  0.             0.26687754+03  0.18076592+04  0.40817226+04 -0.53999598+01  0.16542441+01
2   0.             0.             0.41263334+02  0.47794697+02  0.50379999+02  0.68390623+02  0.11711780+04  0.92583896+03
3   0.             0.             0.75690417+02  0.19118713+03  0.             0.             0.75690417+02  0.19118713+03

CASE  1                      TRAJECTORY ID  -6 NOP                         SECTION  2                         PAGE  30
4   0.43699998+03 -0.75399996+01  0.75399996+01  0.             0.             0.             0.             0.21903170+01
5   0.50399999+02  0.32424998+02  0.32217735+02  0.17034908-06  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6   0.40377601-00  0.75233549+00  0.                             0.20750000+02  0.             0.18500003+02  0.             0.68340439+02

                  220.0000    440359.00    10797.971     15.63140    12119.424     13.89056      -0.01   96.399          0.00
                  282.3432  21350518.25     1716.144     17.94362    48682.151      1.69020       0.02    5.724          0.00
                   28.0552       153.44    80567.311      0.12665      267.664      6.03058       0.00    0.916          0.13
-0.15980513-04  0.16902049+01  0.11115254+05  0.12004137+07  0.88593981+00 -0.36239627-00 -0.28944158-00  0.27632602+02
 0.12664320-00  0.35203437-02  0.42973680+04  0.41212966+06  0.34668565-00  0.93199820+00 -0.10574444-00  0.69715027+02
-0.56213594-01  0.55130501-02  0.22054938+04  0.21312761+08  0.30808108-00 -0.66631892-02  0.55133540+00  0.72056374+02
 0.22115152+03 -0.22115152+03  0.43168677+04  0.18892054+02  0.18172512+02  0.45569112+04  0.30903492+03  0.67346858+08
 0.53521337+01  0.57008827+08  0.15226550+03  0.30741303+03
1   0.33292186+02  0.21869074+01  0.             0.26681411+03  0.14019930+04  0.31531587+04  0.86368948-01  0.16902049+01
2   0.             0.             0.40814809+02  0.47937603+02  0.50379999+02  0.68403747+02  0.11743522+04  0.92958111+03
3   0.             0.             0.83721954+02  0.18309216+03  0.             0.             0.83721954+02  0.18309216+03
4  -0.60458263+01  0.10364273-00 -0.10364273-00  0.             0.             0.             0.             0.21900140+01
5   0.50049999+02  0.32412458+02  0.32122947+02  0.13872319-06  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6   0.25613232-00  0.51845853+00  0.                             0.20000000+02  0.             0.15000004+02  0.             0.68344983+02

                  225.0000    454836.75    11032.573     15.17678    12357.401     13.51683      -0.01   96.472          0.00
                  282.5321  21365011.75     1716.297     17.10185    47343.983      1.74693       0.01    5.496          0.00
                   28.0354       161.91    80990.843      0.11069      267.602      5.84893       0.00    0.838          0.09
-0.13556942-03  0.17469270+01  0.11352071+05  0.12565783+07  0.89049360+00 -0.36142745-00 -0.27638394-00  0.27064661+02
 0.11068630-00  0.36807115-02  0.43903238+04  0.43384761+06  0.34718854-00  0.93237660+00 -0.10064728-00  0.69684524+02
-0.11210324-01  0.57685574-02  0.21356230+04  0.21323615+08  0.29407126-00 -0.63316916-02  0.55576113+00  0.72898147+02
 0.22115155+03 -0.22115155+03  0.43567035+04  0.20555270+02  0.15816465+02  0.45984103+04  0.30901817+03  0.67760029+08
 0.42752456+01  0.57008848+08  0.15246634+03  0.30906786+03
1   0.34047554+02  0.25255832+01  0.             0.26675183+03  0.10158314+04  0.22054018+04 -0.53999598+01  0.17469270+01
2   0.             0.             0.40362642+02  0.48204730+02  0.50379595+02  0.68416873+02  0.11780482+04  0.93464316+03
3   0.             0.             0.75661759+02  0.19109007+03  0.             0.             0.75661759+02  0.19109007+03
4   0.43699998+03 -0.75399996+01  0.75399996+01  0.             0.             0.             0.             0.21898982+01
5   0.49699995+02  0.32399599+02  0.32028152+02  0.11567007-06  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6   0.76487871-01  0.18503837-00  0.                             0.19250000+02  0.             0.11500003+02  0.             0.68373408+02

                  230.0000    469212.50    11276.575     14.73823    12604.627     13.15574      -0.01   96.545          0.00
                  282.6647  21379404.25     1716.517     16.25449    46006.142      1.79726       0.01    5.249          0.00
                   28.0230       170.59    80969.273      0.17976      267.532      5.70686       0.00    0.771          0.07
-0.24934734-04  0.17972627+01  0.11556479+05  0.13139468+07  0.89479794+00 -0.36064439-00 -0.26318998-00  0.26517512+02
 0.17976441-00  0.38245020-02  0.44866944+04  0.45603875+06  0.34783208-00  0.93268116+00 -0.95471470-01  0.69645226+02
-0.82009737-01  0.59690917-02  0.20647518+04  0.21334116+08  0.27990422-00 -0.61182494-02  0.56000704+00  0.73745511+02
 0.22115158+03 -0.22115158+03  0.43952967+04  0.22182006+02  0.21420474+02  0.46386302+04  0.30902150+03  0.68173511+08
 0.35250846+01  0.57008865+08  0.15265503+03  0.30906820+03
1   0.33792008+02  0.25255889+01  0.             0.26668245+03  0.63757122+03  0.12500713+04 -0.53999998+01  0.17972627+01
2   0.             0.             0.39855552+02  0.47991608+02  0.50379999+02  0.68429957+02  0.11827184+04  0.94353435+03
3   0.             0.             0.75641959+02  0.19104049+03  0.             0.             0.75641959+02  0.19104049+03
4   0.43699998+03 -0.75399996+01  0.75399996+01  0.             0.             0.             0.             0.21898223+01
5   0.45366665+02  0.32270369+02  0.31933364+02  0.98279724-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6   0.             0.             0.             0.18500000+02  0.             0.80000038+01  0.             0.68412066+02

                  233.0000    477791.75    11427.578     14.48066    12757.499     12.94327      -0.01   96.592          0.00
                  282.7641  21387993.75     1716.641     15.66481    45203.619      1.82882       0.01    5.016          0.00
                   28.0129       175.89    80953.175     -0.17635      267.481      5.63703       0.00    0.728          0.06
 0.15590749-03  0.18288169+01  0.11747573+05  0.13489625+07  0.89768439+00 -0.36008632-00 -0.25396299-00  0.26144659+02
-0.17635358-00  0.39138830-02  0.45456290+04  0.46959698+06  0.34821628-00  0.93289782+00 -0.51886377-01  0.69621745+02
 0.19532873-01  0.60941188-02  0.20212817+04  0.21340246+08  0.27000517-00 -0.59490932-02  0.96283796+00  0.74335187+02
 0.22115158+03 -0.22115158+03  0.44178729+04  0.23088975+02  0.22318539+02  0.46621133+04  0.30902336+03  0.68421544+08
 0.31832135+01  0.57008874+08  0.15276460+03  0.30906784+03
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CASE  1                        TRAJECTORY ID  -6 ACP                          SECTION  2                                PAGE  31
1  0.74672734+02  0.25255439+01  0.              0.26663109+03  0.41066515+03  0.67700399+03 -0.53999598+01  0.18288169+01
2  0.             0.             0.39482737+02  0.43602525+02  0.50379999+02  0.68437873+02  0.11867132+04  0.10076574+04
3  0.             0.             0.75628354+02  0.19100273+03  0.             0.             0.75628354+02  0.19100273+03
4  0.43655558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.              0.21897248+01
5  0.49166665+02  0.32192591+02  0.31876487+02  0.89802118-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.18050000+02  0.                            0.59000015+01  0.              0.68435261+02

              233.0000     477791.75      11427.578     14.48066      12757.499      12.94327       -0.01    96.592        0.00
              282.7641   21387993.75       1716.641     15.66481      45203.619       1.82882        0.01     5.016        0.00
               28.0125       175.89       80953.175     -0.17635        267.481       5.63703        0.00     0.728        0.06
 0.15550749-03  0.18288169+01  0.11747573+05  0.13489625+07  0.89768435+00 -0.36008632-00 -0.25396299-00  0.26144659+02
-0.17635358-00  0.39138830-02  0.45456290+04  0.46958698+06  0.34821628-00  0.93289782+00 -0.51886377-01  0.69621745+02
 0.19532873-01  0.69941188-02  0.20212817+04  0.21340246+08  0.27000517-00 -0.59490932-02  0.96283796+00  0.74335187+02
 0.22115158+03 -0.22115158+03  0.44178729+04  0.23088575+02  0.22318939+02  0.46621133+04  0.30902336+03  0.68421544+08
 0.31832135+01  0.97008874+08  0.15276460+03  0.30906784+03
1  0.74672734+02  0.25255439+01  0.              0.26663109+03  0.41066515+03  0.67700399+03 -0.53999598+01  0.18288169+01
2  0.             0.             0.39482737+02  0.43602525+02  0.50379999+02  0.68437873+02  0.11867132+04  0.10076574+04
3  0.             0.             0.75628354+02  0.19100273+03  0.             0.             0.75628354+02  0.19100273+03
4  0.43655558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.              0.21897248+01
5  0.49166665+02  0.32192591+02  0.31876487+02  0.89802118-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.18050000+02  0.                            0.59000015+01  0.              0.68435261+02
BEGIN DECAY

              233.8500     480215.75      11468.507     14.40702      12798.957      12.88206       -0.01    96.606        0.00
              282.7925   21390420.75          0.000     15.81957      44971.399       1.69205        0.01     5.273        0.00
               28.0100       177.41       76094.982     -0.18220        262.676       5.61788        0.00     0.744        0.06
 0.15550749-03  0.16920549+01  0.11788665+05  0.13589655+07  0.89688350+00 -0.36036291-00 -0.25638731-00  0.26248554+02
-0.18220106-00  0.23745318-07  0.45616066+04  0.47345760+06  0.34825361-00  0.93279050+00 -0.52830368-01  0.69619476+02
 0.20722674-01  0.19473584-06  0.20080527+04  0.21341958+08  0.27260888-00 -0.60297038-02  0.96210461+00  0.74180429+02
 0.22115159+03 -0.22115159+03  0.44241513+04  0.23318830+02  0.22547174+02  0.46686617+04  0.30892891+03  0.68488288+08
 0.30542676+01  0.97008876+08  0.15279517+03  0.28968844+03
1  0.16758035+02  0.25255128+01  0.              0.26182559+03  0.34696065+03  0.51611745+03 -0.53999998+01  0.16920549+01
2  0.             0.             0.39225604+02  0.39825104+02  0.50379999+02  0.68440104+02  0.11879745+04  0.10474760+04
3  0.             0.             0.74265558+02  0.18755563+03  0.             0.             0.74265958+02  0.18755963+03
4  0.43695558+03 -0.79399956+01  0.79399996+01  0.             0.             0.             0.              0.21895674+01
5  0.45105998+02  0.32170554+02  0.31860370+02  0.87616500-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.17922501+02  0.                            0.53050022+01  0.              0.68441832+02

              234.2810     481443.50      11486.070     14.36888      12816.793      12.84991       -0.01    96.614        0.00
              282.8069   21391650.00          0.000     16.13801      44867.784       1.32790        0.01     5.643        0.00
               28.0096       178.18       59580.047      0.             201.885       5.60686        0.00     0.600        0.06
 0.             0.13279024+01  0.11836604+05  0.13640504+07  0.85635055+00 -0.35811653-00 -0.26135188-00  0.26317565+02
 0.             0.19774457-07  0.45685727+04  0.47542522+06  0.34539121-00  0.93365950+00 -0.94767302-01  0.69794321+02
 0.             0.20890108-06  0.20076027+04  0.21342822+08  0.27795204-00 -0.53239226-02  0.96057875+00  0.73861986+02
 0.22115159+03 -0.22115159+03  0.44273817+04  0.23429475+02  0.22657186+02  0.46719627+04  0.30895062+03  0.68517525+08
 0.30482627+01  0.97008876+08  0.15281059+03  0.29511855+03
1  0.55115407+01  0.25255128+01  0.              0.20103513+03  0.31666788+03  0.44466373+03 -0.53999598+01  0.13279024+01
2  0.             0.             0.38747223+02  0.36563019+02  0.50379999+02  0.68441235+02  0.11885347+04  0.19651599+04
3  0.             0.             0.57022946+02  0.14401218+03  0.             0.             0.57022946+02  0.14401218+03
4  0.43695558+03 -0.79399956+01  0.79399996+01  0.             0.             0.             0.              0.21892469+01
5  0.45081264+02  0.32159380+02  0.31852199+02  0.86542264-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.17857850+02  0.                            0.50033034+01  0.              0.68445165+02

              234.4500     481524.75      11489.721     14.35253      12820.555      12.83566       -0.01    96.617        0.00
              282.8126   21392131.50          0.000     16.13990      44838.285       0.49645        0.01     5.666        0.00
               28.0080       178.48       22261.566      0.             130.963       5.60102        0.00     0.601        0.06
 0.             0.49648555-00  0.11810721+05  0.13660461+07  0.89634477+00 -0.35811967-00 -0.26136733-00  0.26318312+02
 0.             0.19110605-07  0.45701642+04  0.47619747+06  0.34539284-00  0.93365828+00 -0.94773259-01  0.69794221+02
 0.             0.20864241-06  0.19567920+04  0.21343160+08  0.27796859-00 -0.53248993-02  0.96057394+00  0.73861000+02

CASE  1                        TRAJECTORY ID  -6 ACP                          SECTION  2                                PAGE  32
 0.22115159+03 -0.22115159+03  0.44286301+04  0.23457833+02  0.22685459+02  0.46732394+04  0.30895383+03  0.68524440+08
 0.30275960+01  0.97008876+08  0.15281662+03  0.16998373+03
1 -0.22051073-00  0.25255128+01  0.              0.13011292+03  0.31073084+03  0.42461865+03 -0.53999598+01  0.49648555-00
2  0.             0.             0.37815189+02  0.31744193+02  0.50379999+02  0.68441675+02  0.11887359+04  0.10701209+04
3  0.             0.             0.36906098+02  0.93206824+02  0.             0.             0.36906098+02  0.93206824+02
4  0.43695558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.              0.21885515+01
5  0.45069558+02  0.32154558+02  0.31848598+02  0.86127187-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.17832509+02  0.                            0.48850021+01  0.              0.68446471+02

              234.7750     482847.75      11490.198     14.31788      12821.276      12.80462       -0.01    96.623        0.00
              282.8235   21393056.25          0.000     16.14090      44803.826       0.06938        0.01     5.713        0.00
               28.0065       179.06        3108.524      0.              64.840       5.58670        0.00     0.601        0.05
 0.             0.69380645-01  0.11812740+05  0.13658851+07  0.89633368+00 -0.35812571-00 -0.26139706-00  0.26319745+02
 0.             0.18873989-07  0.45709515+04  0.47769294+06  0.34539599-00  0.93365594+00 -0.94784714-01  0.69794028+02
 0.             0.20755868-06  0.19876353+04  0.21343807+08  0.27800040-00 -0.53267767-02  0.96056471+00  0.73859101+02
 0.22115159+03 -0.22115159+03  0.44310263+04  0.23474875+02  0.22702450+02  0.46756527+04  0.30885425+03  0.68528562+08
 0.25845261+01  0.97008876+08  0.15282816+03  0.47941487+02
1 -0.51791705+01  0.25255128+01  0.              0.63989961+02  0.30178412+03  0.40202358+03 -0.53999598+01  0.69380645-01
2  0.             0.             0.37324049+02  0.29381198+02  0.50379999+02  0.68442532+02  0.11889680+04  0.10757133+04
3  0.             0.             0.18150540+02  0.45835421+02  0.             0.             0.18150540+02  0.45839421+02
4  0.43655558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.              0.21881994+01
5  0.45048331+02  0.32146572+02  0.31842834+02  0.85338698-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.17783750+02  0.                            0.46575031+01  0.              0.68448984+02

              236.2890     487117.75      11480.474     14.15036      12812.695      12.65315       -0.01    96.654        0.00
              282.8743   21397331.50          0.000     16.14974      44741.797      -0.00000        0.01     5.941        0.00
               28.0017       181.77           0.         0.               0.850       5.51632        0.00     0.606        0.05
 0.            -0.12047885-06  0.11811280+05  0.13877688+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326423+02
 0.             0.17777511-07  0.45704344+04  0.48460312+06  0.34541068-00  0.93364505+00 -0.94838079-01  0.69793131+02
 0.             0.23431318-06  0.19416318+04  0.21346781+08  0.27814862-00 -0.53355220-02  0.96052172+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44421034+04  0.23484924+02  0.22712469+02  0.46867397+04  0.30862084+03  0.68530913+08
 0.27856552+01  0.97008878+08  0.15288127+03  0.88788233-11
1 -0.55681788+01  0.             0.              0.             0.28804415+03  0.36732312+03 -0.53999598+01 -0.12047885-06
2  0.             0.             0.37147398+02  0.28977320+02  0.50379999+02  0.68446507+02  0.11893246+04  0.10843053+04
3  0.             0.             0.              0.             0.             0.             0.              0.
4  0.43655558+03 -0.79399996+01  0.79399996+01  0.             0.             0.             0.              0.21881587+01
5  0.48947358+02  0.32107320+02  0.31814133+02  0.81838344-07  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.17556650+02  0.                            0.35977020+01  0.              0.68460690+02
END DECAY
BEGIN DELAY

              236.2890     487117.75      11480.474     14.15036      12812.695      12.65315       -0.01    96.654        0.00
              282.8743   21397331.50          0.000     16.14974      44741.797      -0.00000        0.01     5.941        0.00
               28.0017       181.77           0.         0.               0.850       5.51632        0.00     0.606        0.05
 0.            -0.12047885-06  0.11811280+05  0.13877688+07  0.89628159+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.             0.23560592-07  0.45704343+04  0.48460312+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.             0.24579710-06  0.19416317+04  0.21346781+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44421034+04  0.23484924+02  0.22712465+02  0.46867398+04  0.30862084+03  0.68530913+08
 0.27856551+01  0.97008878+08  0.15288127+03  0.22074656-02
1 -0.55681788+01  0.             0.              0.             0.28804415+03  0.36732312+03 -0.53999598+01 -0.12047885-06
2  0.             0.             0.37147398+02  0.28977320+02  0.50379999+02  0.68446507+02  0.11893246+04  0.10843053+04
3  0.             0.             0.              0.             0.             0.             0.              0.
4  0.43655558+03 -0.79399956+01  0.79399596+01  0.             0.             0.             0.              0.21881587+01
5  0.48947358+02  0.32107320+02  0.31814133+02  0.81838344-07  0.20709419+01 -0.71898801+03  0.43462526-00  0.10230000+01
6  0.             0.             0.              0.17556650+02  0.                            0.35977020+01  0.              0.68460690+02
END DELAY
```

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CASE  1                          TRAJECTORY ID  -6 ACP                                SECTION  2                              PAGE  33

                   236.2890    487117.75    11480.474     14.15036     12812.695     12.65315      -0.01    96.654         0.00
                   282.8743  21397331.50        0.000     16.14974     36360.000     -0.00000       0.01     5.941         0.00
                    28.0017       181.77        0.         0.              0.850      5.51632       0.00     0.606         0.05
 0.               -0.12047885-06  0.11811280+05  0.13877688+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.                0.23960592-07  0.45704343+04  0.48460312+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.                0.24575210-06  0.19416317+04  0.21346781+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44421034+04  0.23484924+02  0.22712469+02  0.46867398+04  0.30862084+03  0.68530913+08
 0.27856591+01  0.57008878+08  0.15288127+03  0.22074656-02
1  -0.59681788+01  0.              0.              0.              0.28804415+03  0.36732312+03 -0.53999998+01 -0.12047885-06
2   0.              0.              0.37147398+02  0.28977320+02  0.50379999+02  0.68446507+02  0.11093246+04  0.10843053+04
3   0.              0.              0.              0.              0.              0.              0.              0.
4   0.42699998+03 -0.79399996+01  0.79399996+01  0.              0.              0.              0.              0.21881587+01
5   0.48547358+02  0.32107320+02  0.31814133+02  0.81938344-07  0.20709419+01 -0.71858801+03  0.43462526-00  0.10230090+01
6   0.              0.              0.              0.17556650+02  0.              0.35977020+01  0.              0.68460690+02
```

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CASE  1                          TRAJECTORY ID  -6 ACP                                SECTION  3                              PAGE  34
            TIME          ALTITUDE      VELOCITY RA  FLT PATH R   VELOCITY I   FLT PATH I   AXL FORCE    VEL R AZ       DYNM PRS
            LONGITUDE     R MAGNITUDE   THRST FIXED  PITCH ATT    WEIGHT       AXL LD FCTR  NORM FORCE   ALPHA          ATM PRS
            GEOCENT LAT   GRND RANGE    THRST CONTL  PITCH RATE   WEIGHT DOT   MACH NUMBER  SIDE FORCE   BETA           REY NUMB
ENGLISH UNITS
   CM XI           AC XI            VMU              RMU              L11              L12              L13              ACOL11
   CM ETA          AC ETA           VMV              RMV              L21              L22              L23              ACOL12
   CM ZET          AC ZET           VMW              RMW              L31              L32              L33              ACOL13
   D LOSS          G LOSS           M LOSS           ML ALF           ML BET           T LOSS           SP IMP           TOT IM
   H FLUX          H PARA           DBLOSS           IISP

                   236.2890    487117.75    11480.474     14.15036     12812.695     12.65315      0.       96.654         0.00
                   282.8743  21397331.50        0.        16.14974     36360.000      0.00024      0.        5.941         0.
                    28.0017       181.77        8.720      0.              4.480      0.           0.        0.606         0.
 0.                0.23582397-03  0.11811280+05  0.13877688+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.                0.             0.45704343+04  0.48460312+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.                0.             0.19416317+04  0.21346781+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44421034+04  0.23484924+02  0.22712469+02  0.46867398+04  0.19464285+01  0.68530913+08
 0.34441420+02  0.57008878+08  0.15288127+03  0.19464285+01

                   237.0000    489104.50    11475.170     14.07118     12807.926     12.58150      0.       96.668         0.00
                   282.8981  21399320.75        0.        16.14974     36356.814      0.00024      0.        6.044         0.
                    27.9992       193.05        8.720      0.              4.480      0.           0.        0.607         0.
 0.                0.23984495-03  0.11829875+05  0.13961662+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.                0.             0.45699142+04  0.48785251+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.                0.             0.19198158+04  0.21348154+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44472563+04  0.23484955+02  0.22712504+02  0.46918928+04  0.18836637+01  0.68530919+08
 0.34425509+02  0.57008902+08  0.15250581+03  0.19464285+01

                   240.0000    497358.25    11453.124     13.73636     12788.108     12.27864      0.       96.729         0.00
                   282.9986  21407585.25        0.        16.14974     36343.373      0.00024      0.        6.479         0.
                    27.9988       188.41        8.720      0.              4.480      0.           0.        0.613         0.
 0.                0.23993369-03  0.11803857+05  0.14315867+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.                0.             0.45676847+04  0.50155892+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.                0.             0.18278167+04  0.21353775+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44686521+04  0.23485120+02  0.22712664+02  0.47132887+04  0.18044806+01  0.68530943+08
 0.34359371+02  0.57009004+08  0.15300658+03  0.19464285+01

                   242.7700    504791.75    11433.247     13.42612     12770.247     11.99824      0.       96.785         0.00
                   283.0913  21415028.50        0.        16.14974     36330.962      0.00024      0.        6.882         0.
                    27.9791       193.37        8.720      0.              4.480      0.           0.        0.618         0.
 0.                0.24001566-03  0.11798172+05  0.14642756+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.                0.             0.45655762+04  0.51420850+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.                0.             0.17429434+04  0.21358721+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44879089+04  0.23485287+02  0.22712831+02  0.47325457+04  0.17909496+01  0.68530965+08
 0.34255742+02  0.57009098+08  0.15335575+03  0.19464285+01

                   242.7700    504791.75    11433.247     13.42612     12770.247     11.99824      0.       96.785         0.00
                   283.0913  21415028.50        0.        16.14974     36330.962      0.00024      0.        6.882         0.
                    27.9791       193.37        8.720      0.              4.480      0.           0.        0.618         0.
 0.                0.24001566-03  0.11798172+05  0.14642756+07  0.89628199+00 -0.35815387-00 -0.26153553-00  0.26326425+02
 0.                0.             0.45655762+04  0.51420850+06  0.34541068-00  0.93364504+00 -0.94838079-01  0.69793131+02
 0.                0.             0.17429434+04  0.21358721+08  0.27814862-00 -0.53355220-02  0.96052171+00  0.73850259+02
 0.22115159+03 -0.22115159+03  0.44879089+04  0.23485287+02  0.22712831+02  0.47325457+04  0.17909496+01  0.68530965+08
 0.34255742+02  0.57009098+08  0.15335575+03  0.19464285+01
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CASE  1                           TRAJECTORY ID  -6 NCP                          SECTION  4                                PAGE  35
          TIME           ALTITUDE       VELOCITY RA    FLT PATH R     VELOCITY I     FLT PATH I   AXL FORCE    VEL R AZ       DYNM PRS
          LONGITUDE      R MAGNITUDE    THRST FIXED    PITCH ATT      WEIGHT         AXL LD FCTR  NORM FORCE   ALPHA          ATM PRS
          GEOCENT LAT    GRND RANGE     THRST CNTL     PITCH RATE     WEIGHT DOT     MACH NUMBER  SIDE FORCE   BETA           REY NUMB
ENGLISH UNITS
   CM XI            AC XI            VMU              RMU             L11            L12            L13               ACOL11
   CM ETA           AC ETA           VMV              RMV             L21            L22            L23               ACOL12
   CM ZET           AC ZET           VMW              RMW             L31            L32            L33               ACOL13
   D LOSS           G LOSS           P LOSS           ML ALF          ML BET         T LOSS         SP IMP            TCT IN
   H FLUX           H PARA           DRLOSS           IISP

             242.7700     504791.75     11433.247     13.42612     12770.247     11.99824         0.       96.785         0.00
             283.0913   21415028.50         0.        18.27441     36330.962      0.00048         0.        9.004         0.
              27.9791       193.37         17.358       0.             4.525      0.               0.       -0.797         0.
 0.             0.47778122-03  0.11798172+05  0.14642756+07  0.89454585+00 -0.33604451-00 -0.29470502-00  0.26549332+02
 0.             0.                            0.45655762+04  0.51420850+06  0.31851526-00  0.94184176+00 -0.10713520-00  0.71426842+02
 0.             0.                            0.17429434+04  0.21358721+08  0.31256844-00  0.19657354-02  0.94956201+00  0.71725587+02
 0.22115155+03 -0.22115159+03  0.44875089+04  0.23485287+02  0.22712831+02  0.47325457+04  0.38364718+01  0.68530965+08
 0.34295742+02  0.57009098+08  0.15305575+03  0.38364718+01

             242.8000     504871.25     11433.037     13.42275     12770.058     11.99520         0.       96.786         0.00
             283.0923   21415108.00         0.        18.27440     36330.810      0.00613         0.        9.009         0.
              27.9790       193.42        222.665       0.00044        5.647      0.               0.       -0.797         0.
 0.             0.61288323-02  0.11798112+05  0.14646295+07  0.89454594+00 -0.33604439-00 -0.29470480-00  0.26549319+02
 0.43584350-03  0.                            0.45655540+04  0.51434547+06  0.31851515-00  0.94184179+00 -0.10713513-00  0.71426848+02
-0.24899521-03  0.                            0.17420255+04  0.21358773+08  0.31256821-00  0.19697732-02  0.94956207+00  0.71725601+02
 0.22115159+03 -0.22115159+03  0.44881148+04  0.23485332+02  0.22712875+02  0.47327516+04  0.17710332+02  0.68530968+08
 0.34255112+02  0.97009099+08  0.15305670+03  0.39433184+02

             244.8000     510130.25     11443.739     13.21845     12782.076     11.81324         0.       96.828         0.00
             283.1553   21420373.75         0.        18.27351     36245.053      0.81736         0.        9.279         0.
              27.5719       196.99      29625.406       0.00044       65.683      0.               0.       -0.792         0.
 0.             0.81736410+00  0.11816377+05  0.14882334+07  0.89455710+00 -0.33603649-00 -0.29469094-00  0.26548403+02
 0.43584350-03  0.                            0.45719936+04  0.52347923+06  0.31850852-00  0.94184432+00 -0.10713027-00  0.71427248+02
-0.24855521-03  0.                            0.16886570+04  0.21362200+08  0.31355353-00  0.19724374-02  0.94956668+00  0.71726486+02
 0.22115159+03 -0.22115159+03  0.45017219+04  0.23850435+02  0.23073704+02  0.47467238+04  0.31757011+03  0.68559267+08
 0.34331217+02  0.57009159+08  0.15315890+03  0.42514543+03

             245.0000     510652.50     11447.541     13.20030     12785.996     11.79738         0.       96.833         0.00
             283.1660   21420897.25         0.        18.27342     36231.134      0.81986         0.        9.304         0.
              27.5712       197.35      29704.341       0.            65.486      0.               0.       -0.791         0.
 0.             0.81985678+00  0.11820666+05  0.14905575+07  0.89455783+00 -0.33603571-00 -0.29468957-00  0.26548309+02
 0.             0.                            0.45735145+04  0.52439393+06  0.31850787-00  0.94184459+00 -0.10712978-00  0.71427289+02
 0.             0.                            0.16841657+04  0.21362537+08  0.31355207-00  0.19727068-02  0.94956715+00  0.71726574+02
 0.22115155+03 -0.22115155+03  0.45030709+04  0.23928314+02  0.23150688+02  0.47481508+04  0.33231445+03  0.68565200+08
 0.34342622+02  0.57009165+08  0.15316504+03  0.42748935+03

             250.0000     523539.00     11544.669     12.74483     12886.050     11.39928         0.       96.936         0.00
             283.3343   21433801.50         0.        15.00862     35884.460      0.83207         0.        6.670         0.
              27.5532       206.35      29858.347       0.57538       65.318      0.               0.        1.177         0.
-0.82507084-03  0.83206899+00  0.11928513+05  0.15499708+07  0.89785545+00 -0.36662365-00 -0.24378480-00  0.26121888+02
 0.57538365+00  0.                            0.46133645+04  0.54735871+06  0.35606398-00  0.93033154+00 -0.87727384-01  0.69141332+02
 0.16456650-00  0.                            0.15710469+04  0.21370678+08  0.25896444-00 -0.80362752-02  0.96585160+00  0.74991376+02
 0.22115159+03 -0.22115159+03  0.45361373+04  0.25689902+02  0.24899116+02  0.47829787+04  0.40761654+03  0.68714233+08
 0.34634007+02  0.57009335+08  0.15331436+03  0.43074580+03

             260.0000     548235.50     11748.540     11.79144     13095.783     10.56361         0.       97.105         0.00
             283.6759   21458535.75         0.        13.90612     35192.140      0.84669         0.        6.863         0.
              27.9161       224.61      29796.665      -0.08425       69.124      0.               0.        1.326         0.

CASE  1                           TRAJECTORY ID  -6 NCP                          SECTION  4                                PAGE  36
 0.32556664-03  0.84668527+00  0.12149563+05  0.16703610+07  0.90129090+00 -0.36528164-00 -0.22649772-00  0.25671726+02
-0.84249567-01  0.                            0.47032139+04  0.59394011+06  0.36043169-00  0.92927331+00 -0.80840155-01  0.68873288+02
-0.58179006-01  0.                            0.13294397+04  0.21385180+08  0.24033175-00 -0.87766271-02  0.97064926+00  0.76093878+02
 0.22115155+03 -0.22115159+03  0.45583241+04  0.27493581+02  0.26642403+02  0.48469696+04  0.42184610+03  0.69012642+08
 0.35245620+02  0.57009679+08  0.15358549+03  0.43106302+03

             270.0000     571510.00     11960.945     10.90659     13313.338      9.78713         0.       97.288         0.00
             284.0240   21481850.00         0.        14.05700     34502.001      0.86091         0.        8.242         0.
              27.8772       243.23      29702.565       0.21528       68.904      0.               0.        0.945         0.
 0.38287224-03  0.86090557+00  0.12373079+05  0.17929715+07  0.90310742+00 -0.36336665-00 -0.22881652-00  0.25430421+02
 0.21527724-00  0.                            0.47916822+04  0.64141562+06  0.35411640-00  0.93161580+00 -0.81783060-01  0.69260699+02
-0.68547291-01  0.                            0.10916223+04  0.21397284+08  0.24288703-00 -0.71689565-02  0.97002615+00  0.75943001+02
 0.22115155+03 -0.22115155+03  0.46554093+04  0.30313575+02  0.29441221+02  0.49068744+04  0.42534389+03  0.69310135+08
 0.35882834+02  0.57010029+08  0.15383656+03  0.43107834+03

             280.0000     592432.00     12182.261     10.07001     13535.259      9.05176         0.       97.476         0.00
             284.3789   21503813.50         0.        13.13424     33813.563      0.87736         0.        8.508         0.
              27.8366       262.23      29666.558       0.06947       68.829      0.               0.        0.886         0.
-0.47572409-03  0.87735675+00  0.12595575+05  0.19178335+07  0.90701752+00 -0.36251512-00 -0.21422561-00  0.24903604+02
 0.65466425-01  0.                            0.48879294+04  0.68977708+06  0.35451325-00  0.93194759+00 -0.76084083-01  0.69236384+02
 0.11575415-00  0.                            0.85362484+03  0.21407011+08  0.22723328-00 -0.65378078-02  0.97381365+00  0.76865755+02
 0.22115159+03 -0.22115159+03  0.47077295+04  0.33738063+02  0.32852151+02  0.49626191+04  0.42690971+03  0.69606887+08
 0.36546782+02  0.57010387+08  0.15405933+03  0.43101559+03

             290.0000     614037.75     12413.276      9.27242     13774.418      8.34925         0.       97.667         0.
             284.7408   21524462.50         0.        12.14429     33125.312      0.89529         0.        8.676         0.
              27.7940       281.62      29656.741      -0.11768       68.821      0.               0.        0.898         0.
-0.41200577-03  0.85528941+00  0.12831102+05  0.20449845+07  0.91052850+00 -0.36265478-00 -0.19853074-00  0.24421510+02
-0.11767685-00  0.                            0.49720237+04  0.73904072+06  0.35591546-00  0.93189441+00 -0.69939653-01  0.69150438+02
 0.84479536-01  0.                            0.61351041+03  0.21414345+08  0.21037430-00 -0.65782691-02  0.97759398+00  0.77855711+02
 0.22115159+03 -0.22115159+03  0.47555253+04  0.37492640+02  0.36592049+02  0.50141694+04  0.42778140+03  0.69903502+08
 0.             0.57010513+08  0.15426061+03  0.43092641+03

             300.0000     633360.00     12653.981      8.51589     14018.829      7.68152         0.       97.860         0.
             285.1097   21543829.50         0.        11.46450     32437.141      0.91398         0.        9.119         0.
              27.7495       301.41      29646.925       0.16598       68.813      0.               0.        0.957         0.
 0.41341390-03  0.51398083+00  0.13066676+05  0.21744698+07  0.91234559+00 -0.36384195-00 -0.18772220-00  0.24168478+02
 0.16557554-00  0.                            0.50647246+04  0.78922823+06  0.35793155-00  0.93142948+00 -0.65715449-01  0.69026780+02
-0.54824047-01  0.                            0.37160791+03  0.21419277+08  0.19876067-00 -0.72366675-02  0.98001923+00  0.78535503+02
 0.22115159+03 -0.22115159+03  0.47990226+04  0.41651648+02  0.40738205+02  0.50618258+04  0.42832819+03  0.70200017+08
 0.             0.57010513+08  0.15444274+03  0.43083321+03

             310.0000     651434.00     12904.478      7.79828     14272.634      7.04675         0.       98.057         0.
             285.4855   21561550.50         0.        10.74523     31745.050      0.93348         0.        9.489         0.
              27.7030       321.60      29637.105       0.06587       68.805      0.               0.        0.836         0.
-0.32527400-03  0.53348020+00  0.13306542+05  0.23063342+07  0.91536053+00 -0.36200565-00 -0.17623522-00  0.23743020+02
 0.65871003-01  0.                            0.51591816+04  0.84034089+06  0.35686036-00  0.93214602+00 -0.61226910-01  0.69092495+02
 0.86483026-01  0.                            0.12735563+03  0.21421774+08  0.18644230-00 -0.68468324-02  0.98243988+00  0.79254765+02
 0.22115159+03 -0.22115159+03  0.48384473+04  0.46142323+02  0.45217080+02  0.51057411+04  0.42865642+03  0.70496432+08
 0.             0.57010513+08  0.15460765+03  0.43073998+03

             320.0000     668293.50     13164.878      7.11803     14535.980      6.44363         0.       98.258         0.
             285.8696   21578859.50         0.         9.79665     31061.037      0.95384         0.        9.603         0.
              27.6543       342.22      29627.293       0.17720       68.757      0.               0.        0.992         0.
-0.46842699-03  0.55384130+00  0.13552134+05  0.24406251+07  0.91712590+00 -0.36459070-00 -0.16108465-00  0.23490538+02
 0.17720237-00  0.                            0.52554792+04  0.89241280+06  0.36044856-00  0.93113558+00 -0.55294035-01  0.68872252+02
 0.77350041-01  0.                           -0.11568597+03  0.21421915+08  0.17015191-00 -0.73513024-02  0.98538817+00  0.80203346+02
 0.22115159+03 -0.22115159+03  0.48740200+04  0.50900473+02  0.45964721+02  0.51460720+04  0.42895600+03  0.70792747+08
 0.             0.57010513+08  0.15475702+03  0.43064673+03
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CASE  1                        TRAJECTORY ID  -6 NOM.                                SECTION  4                           PAGE  37
                 330.0000     683570.00      13435.600        6.47425     14809.316      5.87148         0.       98.461         0.
                 286.2611   21594587.00          0.           8.77577     30372.530      0.97779         0.        9.612         0.
                  27.6039        363.27      29697.930        0.08400        68.956      0.              0.        0.880         0.
-0.14393298-03   0.97778914+00   0.13802716+05   0.25773941+07   0.92052131+00  -0.36290236-00  -0.14469545-00   0.22997586+02
 0.84000349-01   0.                              0.53538851+04   0.94545828+06   0.35966394-00   0.93179721+00  -0.48884979-01   0.68920439+02
 0.42872105-01   0.             -0.36585817+03   0.21419369+08   0.15256782-00  -0.70422362-02   0.58826558+00   0.81224232+02
 0.22115159+03  -0.22115159+03   0.49055439+04   0.55886713+02   0.54940604+02   0.51829821+04   0.42914397+03   0.71089240+08
 0.              0.57010513+08   0.15489225+03   0.43067639+03

                 333.1700     688698.50      13523.757        6.27827     14898.237      5.69703         0.       98.526         0.
                 286.3868   21599332.50          0.           8.50742     30153.818      0.98602         0.        9.664         0.
                  27.5867        370.04      29732.160        0.18388        69.032      0.              0.        0.867         0.
-0.46812425-05   0.58601641+00   0.13883459+05   0.26212765+07   0.92125916+00  -0.36272482-00  -0.14038016-00   0.22889138+02
 0.18388209-00   0.              0.53856065+04   0.96248030+06   0.35970905-00   0.93186654+00  -0.47201902-01   0.68917670+02
 0.20770014-01   0.             -0.44972362+03   0.21418070+08   0.14793739-00  -0.70109852-02   0.58896953+00   0.81492583+02
 0.22115159+03  -0.22115159+03   0.49153366+04   0.57532395+02   0.56583121+02   0.51940205+04   0.42919593+03   0.71183435+08
 0.              0.57010513+08   0.15493238+03   0.43070377+03

                 333.1700     688698.50      13523.757        6.27827     14898.237      5.69703         0.       98.526         0.
                 286.3868   21599332.50          0.           8.50742     30153.818      0.98602         0.        9.664         0.
                  27.5867        370.04      29732.160        0.18388        69.032      0.              0.        0.867         0.
-0.46812425-05   0.58601641+00   0.13883459+05   0.26212765+07   0.92125916+00  -0.36272482-00  -0.14038016-00   0.22889138+02
 0.18388209-00   0.              0.53856065+04   0.96248030+06   0.35970905-00   0.93186654+00  -0.47201902-01   0.68917670+02
 0.20770014-01   0.             -0.44972362+03   0.21418070+08   0.14793739-00  -0.70109852-02   0.58896953+00   0.81492583+02
 0.22115159+03  -0.22115159+03   0.49153366+04   0.57532395+02   0.56583121+02   0.51940205+04   0.42919593+03   0.71183435+08
 0.              0.57010513+08   0.15493238+03   0.43070377+03


CASE  1                        TRAJECTORY ID  -6 ACP                                 SECTION  5                           PAGE  38
            TIME           ALTITUDE       VELOCITY RA   FLT PATH R     VELOCITY I   FLT PATH I   AXL FORCE    VEL R AZ       DYNM PRS
            LONGITUDE      R MAGNITUDE    THRST FIXED   PITCH ATT      WEIGHT       AXL LD FCTR  NORM FORCE   ALPHA          ATM PRS
            GEOCENT LAT    GRND RANGE     THRST CONTL   PITCH RATE     WEIGHT DOT   MACH NUMBER  SIDE FORCE   BETA           REV NUMB
ENGLISH UNITS
   CM XI           AC XI            VMU              RMU               L11             L12             L13             ACOL11
   CM ETA          AC ETA           VMV              RMV               L21             L22             L23             ACOL12
   CM ZET          AC ZET           VMW              RMW               L31             L32             L33             ACOL13
   D LOSS          G LOSS           M LOSS           ML ALF            ML BET          T LOSS          SP IMP          TOT IM
   H FLUX          H PARA           CBLOSS           TISP

                 333.1700     688698.50      13523.757        6.27827     14898.237      5.69703         0.       98.526         0.
                 286.3868   21599332.50          0.           8.50742     30153.818      0.98602         0.        9.664         0.
                  27.5867        370.04      29732.160        0.             69.041      0.              0.        0.867         0.
 0.              0.58601641+00   0.13883459+05   0.26212765+07   0.92125916+00  -0.36272482-00  -0.14038016-00   0.22889138+02
 0.              0.              0.53856065+04   0.96248030+06   0.35970905-00   0.93186654+00  -0.47201902-01   0.68917670+02
 0.              0.             -0.44972362+03   0.21418070+08   0.14793739-00  -0.70109852-02   0.58896953+00   0.81492583+02
 0.22115159+03  -0.22115159+03   0.49153366+04   0.57532395+02   0.56583121+02   0.51940205+04   0.43064220+03   0.71183435+08
 0.              0.57010513+08   0.15493238+03   0.43064220+03

                 334.0000     689917.50      13547.062        6.22767     14921.736      5.65198         0.       98.543         0.
                 286.4198   21600556.00          0.           8.50705     30096.388      0.99088         0.        9.746         0.
                  27.5823        371.82      29821.781        0.24368        69.345      0.              0.        0.866         0.
 0.57608368-04   0.99087576+00   0.13904744+05   0.26928285+07   0.92126135+00  -0.36272149-00  -0.14037429-00   0.22888815+02
 0.24367640-00   0.              0.53939548+04   0.96695382+06   0.35970598-00   0.93186783+00  -0.47199613-01   0.68917858+02
-0.58442544-02   0.             -0.47066365+03   0.21417688+08   0.14793111-00  -0.70104548-02   0.58897046+00   0.81492947+02
 0.22115159+03  -0.22115159+03   0.49177398+04   0.57970995+02   0.57020594+02   0.51968623+04   0.42938982+03   0.71208149+08
 0.              0.57010513+08   0.15494268+03   0.43005235+03

                 340.0000     698501.75      13719.866        5.87036     15095.883      5.33363         0.       98.667         0.
                 286.6604   21605172.75          0.           9.03763     29674.375      1.02026         0.        9.872         0.
                  27.5500        384.77      30275.543        0.07470        70.877      0.              0.        0.891         0.
-0.20018641-03   0.10207588+01   0.14061862+05   0.27167059+07   0.92220459+00  -0.36316671-00  -0.13282373-00   0.22749405+02
 0.74659872-01   0.              0.54554678+04   0.99950112+06   0.36052591-00   0.93169388+00  -0.44254728-01   0.68867256+02
 0.68716889-01   0.             -0.62256450+03   0.21414408+08   0.13982338-00  -0.70751464-02   0.99014879+00   0.81962371+02
 0.22115159+03  -0.22115159+03   0.49344347+04   0.61156825+02   0.60242185+02   0.52167830+04   0.42761602+03   0.71388834+08
 0.              0.97010513+08   0.15501461+03   0.42715408+03

                 350.0000     711940.00      14018.309        5.30463     15396.353      4.82866         0.       98.876         0.
                 287.0681   21622667.00          0.           6.73989     28965.326      1.04589         0.        9.543         0.
                  27.4942        406.74      30294.630        0.02035        70.932      0.              0.        0.902         0.
 0.35305621-04   0.10458929+01   0.14230094+05   0.28586599+07   0.92484769+00  -0.36349306-00  -0.11190905-00   0.22354600+02
 0.20351281-01   0.              0.55609606+04   0.10545816+07   0.36176948-00   0.93156611+00  -0.36069741-01   0.68791094+02
-0.15535230-01   0.             -0.87851182+03   0.21406908+08   0.11736219-00  -0.71264172-02   0.59306117+00   0.83260106+02
 0.22115159+03  -0.22115159+03   0.49557198+04   0.66731425+02   0.65766010+02   0.52476017+04   0.42730849+03   0.71651680+08
 0.              0.57010513+08   0.15512532+03   0.42709298+03

                 360.0000     724317.00      14328.156        4.77109     15707.973      4.35114         0.       99.090         0.
                 287.4845   21635102.50          0.           5.61316     28255.729      1.07283         0.        9.360         0.
                  27.4358        429.20      30313.717        0.19390        70.987      0.              0.        0.824         0.
-0.20138302-04   0.10728343+01   0.14605198+05   0.30033305+07   0.92732503+00  -0.36232481-00  -0.53677735-01   0.21977784+02
 0.15385820-00   0.              0.56683924+04   0.11107269+07   0.36123108-00   0.93202227+00  -0.28983326-01   0.68824179+02
 0.10715866-00   0.             -0.11392701+04   0.21396822+08   0.57811466-01  -0.65623621-02   0.99517810+00   0.84386840+02
 0.22115159+03  -0.22115159+03   0.49819850+04   0.72258167+02   0.71286845+02   0.52753947+04   0.42720792+03   0.71994717+08
 0.              0.57010513+08   0.15522528+03   0.42703198+03

                 370.0000     735662.00      14649.760        4.26735     16031.137      3.89904         0.       99.306         0.
                 287.9396   21646509.25          0.           4.57439     27545.583      1.10119         0.        9.243         0.
                  27.3747        452.17      30332.804        0.23928        71.042      0.              0.        0.766         0.
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CASE  1                          TRAJECTORY ID  -6 NOP                              SECTION  5                             PAGE  39
 0.14360817-03  0.11011857+01  0.14887090+05  0.31507856+07  0.92919956+00 -0.36149245-00 -0.76845371-01  0.21609617+02
 0.73578011-00  0.                             0.57789516+04  0.11679627+07  0.36086237-00  0.93234583+00 -0.22425199-01  0.68846832+02
-0.69587645-01  0.             -0.14056630+04  0.21384101+08  0.79753295-01 -0.68932451-02  0.99678826+00  0.89425614+02
 0.22115159+03 -0.22115159+03  0.50714110+04  0.77674468+02  0.76694165+02  0.53002369+04  0.42714550+03  0.72297945+08
 0.             0.57010513+08  0.15531527+03  0.42697106+03

               380.0000     746003.25     14582.010       3.79313     16364.745       3.47222      0.     99.526       0.
               289.3440   21656514.00         0.           3.27458     26838.741       1.11572      0.      8.846       0.
                27.3107        475.65     29944.566       0.19651        65.781       0.           0.      0.827       0.
 0.20405360-04  0.11157217+01  0.15174865+05  0.33010934+07  0.93026477+00 -0.36261655-00 -0.55771215-01  0.21523874+02
 0.16650828-00  0.             0.58517762+04  0.12263147+07  0.36240663-00  0.93190830+00 -0.14194950-01  0.68751930+02
-0.51054792-02  0.            -0.16778827+04  0.21368690+08  0.57121188-01 -0.70069352-02  0.59834007+00  0.86725414+02
 0.22115155+03 -0.22115155+03  0.50181639+04  0.82965121+02  0.81980669+02  0.53222845+04  0.42731775+03  0.72600171+08
 0.             0.57010513+08  0.15535600+03  0.42912129+03

               390.0000     755355.00     15319.793       3.34194     16703.706       3.06396      0.     99.750       0.
               288.7876   21666333.00         0.           1.99703     26149.687       1.13397      0.      8.457       0.
                27.2437        499.67     29653.062       0.14580        68.860       0.           0.      0.818       0.
 0.61166101-04  0.11339738+01  0.15462715+05  0.34542838+07  0.93128509+00 -0.36258545-00 -0.35015483-01  0.21363339+02
 0.14580052-00  0.             0.60046393+04  0.12857956+07  0.36260191-00  0.93192033+00 -0.61116337-02  0.68739924+02
-0.30505229-01  0.            -0.19574507+04  0.21350515+08  0.34847752-01 -0.70051140-02  0.99936547+00  0.88002966+02
 0.22115155+03 -0.22115159+03  0.50323845+04  0.87891178+02  0.86897221+02  0.53414273+04  0.42793719+03  0.72896899+08
 0.             0.57010513+08  0.15546796+03  0.43062574+03

               400.0000     763729.00     15666.804       2.91324     17051.732       2.67645      0.     99.978       0.
               289.2407   21674776.75         0.           0.61127     25467.125       1.15560      0.      7.944       0.
                27.1737        524.24     29429.841       0.10901        68.246       0.           0.      0.760       0.
 0.15039101-04  0.11556011+01  0.15756767+05  0.36103839+07  0.93218044+00 -0.36176952-00 -0.12486070-01  0.21222702+02
 0.10901035-00  0.             0.61155709+04  0.13464153+07  0.36182799-00  0.93223716+00  0.26854535-02  0.68787497+02
 0.62516406-02  0.            -0.22442621+04  0.21329517+08  0.10668487-01 -0.70212583-02  0.99991576+00  0.85388728+02
 0.22115155+03 -0.22115155+03  0.50442013+04  0.92515142+02  0.91513301+02  0.53578680+04  0.42845201+03  0.73191273+08
 0.             0.57010513+08  0.15553157+03  0.43123135+03.

               410.0000     771146.50     16028.214       2.51095     17414.002       2.31102      0.    100.209       0.
               289.7035   21682267.25         0.         359.29779     24780.396       1.18891      0.      7.490       0.
                27.1994        549.36     29461.614       0.08739        68.267       0.           0.      0.937       0.
 0.16585601-03  0.11889081+01  0.16058558+05  0.37694574+07  0.93104763+00 -0.36478129-00  0.08456578-02  0.21401285+02
 0.87385549-01  0.             0.62279014+04  0.14081991+07  0.36468297-00  0.93106260+00  0.11019163-01  0.68611926+02
-0.84406079-01  0.            -0.25388831+04  0.21305608+08 -0.12255517-01 -0.70336358-02  0.59989741+00  0.90702205+02
 0.22115155+03 -0.22115155+03  0.50537521+04  0.96842495+02  0.95833695+02  0.53717461+04  0.42875364+03  0.73487128+08
 0.             0.57010513+08  0.15558729+03  0.43156510+03

               420.0000     777627.75     16402.600       2.12982     17785.106       1.96375      0.    100.444       0.
               290.1764   21688825.00         0.         357.90152     24094.062       1.22679      0.      6.939       0.
                27.0236        575.07     29558.380       0.16139        68.557       0.           0.      0.850       0.
 0.32218055-04  0.12267910+01  0.16368691+05  0.39315859+07  0.93106015+00 -0.36348530-00  0.31555472-01  0.21399319+02
 0.16135440-00  0.             0.63590295+04  0.14711799+07  0.36301465-00  0.93156762+00  0.19865475-01  0.68714548+02
-0.47111685-01  0.            -0.28427047+04  0.21278708+08 -0.36617123-01 -0.70409673-02  0.99930178+00  0.92058473+02
 0.22115155+03 -0.22115155+03  0.50611679+04  0.10071663+03  0.99702001+02  0.53830360+04  0.42898837+03  0.73782880+08
 0.             0.57010513+08  0.15563551+03  0.43115333+03

               430.0000     783186.00     16788.122       1.76847     18175.215       1.63346      0.    100.684       0.
               290.6597   21694463.50         0.         356.27859     23413.838       1.25350      0.      6.152       0.
                26.5433        601.37     29349.328       0.07068        67.889       0.           0.      0.911       0.
 0.55702655-04  0.12535035+01  0.16604088+05  0.40968453+07  0.92935430+00 -0.36460961-00  0.57909117-01  0.21665615+02
 0.70684128-01  0.             0.64521365+04  0.15353835+07  0.36342575-00  0.93113029+00  0.30125182-01  0.68689021+02
-0.28534380-01  0.            -0.31561881+04  0.21246723+08 -0.64905171-01 -0.65511759-02  0.99786437+00  0.93721405+02
 0.22115155+03 -0.22115159+03  0.50655635+04  0.10411502+03  0.10309567+03  0.53918301+04  0.42932719+03  0.74076828+08
 0.             0.57010513+08  0.15567651+03  0.43221573+03

CASE  1                          TRAJECTORY ID  -6 NOP                              SECTION  5                             PAGE  40

               440.0000     787830.50     17188.089       1.42557     18575.653       1.31907      0.    100.927       0.
               291.1535   21699191.50         0.         354.83067     22732.488       1.30036      0.      5.532       0.
                26.8593        628.30     29560.346       0.15539        68.569       0.           0.      0.838       0.
-0.12374505-03  0.13003568+01  0.17037788+05  0.42652945+07  0.92800783+00 -0.36355142-00  0.81392428-01  0.21873628+02
 0.15535166-00  0.             0.66087169+04  0.16008339+07  0.36149230-00  0.93154334+00  0.39274933-01  0.68808127+02
 0.30583232-01  0.            -0.34806494+04  0.21215545+08 -0.50099458-01 -0.70248085-02  0.59590506+00  0.95169328+02
 0.22115159+03 -0.22115159+03  0.50700413+04  0.10700212+03  0.10597701+03  0.53981949+04  0.42953712+03  0.74371053+08
 0.             0.57010513+08  0.15571053+03  0.43110402+03

               450.0000     791572.00     17602.098       1.10030     18990.024       1.01987      0.    101.174       0.
               291.6585   21703019.50         0.         353.17433     22052.303       1.33223      0.      4.697       0.
                26.7713        655.88     29378.835       0.17951        68.031       0.           0.      0.890       0.
-0.20051050-03  0.13372343+01  0.17335187+05  0.44370256+07  0.92487761+00 -0.36454595-00  0.10816822-00  0.22350092+02
 0.17550657-00  0.             0.67343559+04  0.16675683+07  0.36120544-00  0.93115526+00  0.49724276-01  0.68825754+02
 0.54575594-01  0.            -0.38167576+04  0.21179373+08 -0.11884876-00 -0.65180248-02  0.99248526+00  0.96825666+02
 0.22115159+03 -0.22115159+03  0.50717042+04  0.10938219+03  0.10835080+03  0.54022379+04  0.42975283+03  0.74664849+08
 0.             0.57010513+08  0.15573778+03  0.43184730+03

               460.0000     794414.25     18032.576       0.78946     19420.764       0.73302      0.    101.424       0.
               292.1748   21705952.50         0.         351.55532     21365.510       1.36729      0.      3.896       0.
                26.6791        684.12     29218.320       0.11969        67.577       0.           0.      0.934       0.
 0.14162783-03  0.13672901+01  0.17690033+05  0.46121173+07  0.92111190+00 -0.36540660-00  0.13425168-00  0.22910821+02
 0.11567637-00  0.             0.68718828+04  0.17356188+07  0.36052677-00  0.93081883+00  0.59905062-01  0.68867449+02
-0.72676712-01  0.            -0.41645012+04  0.21139168+08 -0.14685439-00 -0.67780434-02  0.98913183+00  0.98444677+02
 0.22115159+03 -0.22115159+03  0.50716427+04  0.11120176+03  0.11016327+03  0.54039540+04  0.42988581+03  0.74959351+08
 0.             0.57010513+08  0.15575839+03  0.43237225+03

               470.0000     796357.25     18475.397       0.49313     19863.736       0.45866      0.    101.681       0.
               292.7027   21707590.25         0.         349.82598     20694.261       1.42405      0.      2.985       0.
                26.5826        713.05     29469.564       0.23434        68.278       0.           0.      0.852       0.
-0.17646147-03  0.14240452+01  0.18026514+05  0.47906383+07  0.91712653+00 -0.36419822-00  0.16196014-00  0.23490449+02
 0.23434171-00  0.             0.70068493+04  0.18050087+07  0.35734414-00  0.93129104+00  0.70667302-01  0.69062820+02
 0.24631572-01  0.            -0.45295554+04  0.21095701+08 -0.17656578-00 -0.69354460-02  0.98426054+00  0.10017002+03
 0.22115159+03 -0.22115159+03  0.50695284+04  0.11253308+03  0.11149063+03  0.54036130+04  0.43006029+03  0.75251431+08
 0.             0.57010513+08  0.15577244+03  0.43161280+03

               480.0000     797398.25     18538.913       0.20890     20327.319       0.19463      0.    101.940       0.
               293.2429   21709130.75         0.         348.03021     20011.851       1.47171      0.      2.000       0.
                26.4816        742.70     29451.593       0.20844        68.255       0.           0.      0.877       0.
 0.55152297-04  0.14717075+01  0.18385279+05  0.49726513+07  0.91137219+00 -0.36474153-00  0.19067449-00  0.24304327+02
 0.70844280-00  0.             0.71470994+04  0.18757758+07  0.35550025-00  0.93107907+00  0.81871082-01  0.69175892+02
-0.50463557-01  0.            -0.49702135+04  0.21049520+08 -0.20736583-00 -0.68302893-02  0.97823007+00  0.10196978+03
 0.22115159+03 -0.22115159+03  0.50666416+04  0.11338551+03  0.11234109+03  0.54011826+04  0.43016563+03  0.75545971+08
 0.             0.57010513+08  0.15577995+03  0.43149125+03

               490.0000     797531.75     19420.892      -0.06431     20809.279      -0.06001      0.    102.203       0.
               293.7956   21709368.50         0.         346.15686     19327.785       1.52437      0.      0.943       0.
                26.3757        773.10     29462.656       0.16299        68.373       0.           0.      0.902       0.
-0.12903371-04  0.15243679+01  0.18753822+05  0.51588006+07  0.90443010+00 -0.36529823-00  0.22035360-00  0.25253364+02
 0.16758514-00  0.             0.72914222+04  0.19470659+07  0.35320157-00  0.93086160+00  0.93470445-01  0.69316736+02
-0.21163054-01  0.            -0.53061660+04  0.20997458+08 -0.23926448-00 -0.67083523-02  0.97092800+00  0.10384313+03
 0.22115159+03 -0.22115159+03  0.50618474+04  0.11385758+03  0.11280170+03  0.53968565+04  0.43022194+03  0.75840867+08
 0.             0.57010513+08  0.15578093+03  0.43090923+03

               495.1700     796848.75     19879.094      -0.30058     21267.387      -0.28096      0.    102.448       0.
               294.3135   21708784.25         0.         345.82287     18700.927       1.56783      0.      1.354       0.
                26.2742        801.66     29319.879      -0.01005        67.867       0.           0.      0.849       0.
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CASE  1                                TRAJECTORY ID  -6 NOM                        SECTION  5                      PAGE  41
 0.19639441-03  0.15678302+01  0.19100423+05  0.53319371+07  0.90341038+00 -0.36459699-00  0.22563451-00  0.25389969+02
-0.10048875-01  0.                            0.74270695+04  0.20154477+07  0.35193219-00  0.93113517+00  0.95510638-01  0.69394457+02
-0.63516014-01  0.             -0.56845700+04  0.20947070+08 -0.24492035-00 -0.68773402-02  0.96951550+00  0.10417712+03
 0.22115155+03 -0.22115159+03  0.50561777+04  0.11408691+03  0.11302463+03  0.53514160+04  0.43027516+03  0.76111058+08
 0.             0.57010513+08  0.15577602+03  0.43201984+03

               459.1700     756848.75     19879.094      -0.30058      21267.387      -0.28096       0.      102.448        0.
               294.3139   21708784.25     0.            345.82287      18700.927       1.56783       0.        1.354        0.
                26.2742        801.66     29315.879      -0.01005         67.867       0.            0.        0.849        0.
 0.15635441-03  0.15678302+01  0.19100423+05  0.53319371+07  0.90341038+00 -0.36459699-00  0.22563451-00  0.25389969+02
-0.10048875-01  0.                            0.74270695+04  0.20154477+07  0.35193219-00  0.93113517+00  0.95510638-01  0.69394457+02
-0.63516014-01  0.             -0.56845700+04  0.20947070+08 -0.24492035-00 -0.68773402-02  0.96951550+00  0.10417712+03
 0.22115155+03 -0.22115159+03  0.50561777+04  0.11408691+03  0.11302463+03  0.53514160+04  0.43027516+03  0.76111058+08
 0.             0.57010513+08  0.15577602+03  0.43201984+03
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CASE  1                                TRAJECTORY ID  -6 NOM                        SECTION  6                      PAGE  42
              TIME           ALTITUDE       VELOCITY RA   FLT PATH R     VELOCITY I    FLT PATH I   AXL FORCE    VEL R AZ      DYNM PRS
              LONGITUDE      R MAGNITUDE    THRST FIXED   PITCH ATT      WEIGHT        AXL LD FCTR NORM FORCE   ALPHA         ATM PRS
              GEOCENT LAT    GRND RANGE     THRST CONTL   PITCH RATE     WEIGHT DOT    MACH NUMBER SIDE FORCE   BETA          REY NUMB
ENGLISH UNITS
   CM XI            AC XI              VMU              RMU              L11             L12              L13             ACOL11
   CM ETA           AC ETA             VMV              RMV              L21             L22              L23             ACOL12
   CM ZET           AC ZET             VMW              RMW              L31             L32              L33             ACOL13
   D LOSS           G LOSS             M LOSS           ML ALF           PL BET          T LOSS           SP IMP          TOT IM
   H FLUX           H PARA             DBLOSS           IISP
   PERRAD           PERALT             PERVEL           SEMILR           SEMIMA          ECCENT           VISVIV          V-INFI
   APORAD           APOALT             APOVEL           ORBINC           TRU AN          SEMIVA           PERIAP          LONASN
   POSARG           PERIOD             TIMEAP           ECC AN           MEANAN          RNGANG

               459.1700     756848.75     19879.094      -0.30058      21267.387      -0.28096       0.      102.448        0.
               294.3139   21708784.25     0.            345.88877      18700.927       1.56731       0.        1.420        0.
                26.2742        801.66     29310.063       0.               67.867      0.            0.        0.849        0.
 0.             0.15673053+01  0.19100423+05  0.53319371+07  0.90367086+00 -0.36459306-00  0.22459530-00  0.25355138+02
 0.             0.                            0.74270695+04  0.20154477+07  0.35203776-00  0.93113669+00  0.95105799-01  0.69387995+02
 0.             0.             -0.56845700+04  0.20947070+08 -0.24380507-00 -0.68784021-02  0.96979653+00  0.10411122+03
 0.22115155+03 -0.22115159+03  0.50561777+04  0.11408691+03  0.11302463+03  0.53514160+04  0.43187520+03  0.76111058+08
 0.             0.57010513+08  0.15577602+03  0.43187520+03
 0.11625612+08 -0.53001256+07  0.39712621+05  0.15142338+08  0.16667500+08  0.30249812-00 -0.84455015+09 -0.29061145+05
 0.21705387+08  0.78364950+06  0.21266539+05  0.28562566+02  0.18064789+03  0.27453512-18  0.29155453+03  0.25993095+03
 0.11220241+03  0.36036085+04  0.35920654+04  0.18088534+03  0.18115314+03  0.15178791+02

               500.0000     796750.25     19921.141      -0.31908      21309.422      -0.29829       0.      102.471        0.
               294.3614   21708694.50     0.            345.88841      18644.597       1.57204       0.        1.484        0.
                26.2648        804.27     29310.063       0.15388         67.866      0.            0.        0.848        0.
 0.40574048-04  0.15720405+01  0.19132216+05  0.53478037+07  0.90367074+00 -0.36458590-00  0.22460105-00  0.25355155+02
 0.15387635-00  0.                            0.74394852+04  0.20216174+07  0.35203379-00  0.93113795+00  0.95108038-01  0.69388238+02
 0.30766216-01  0.             -0.57187252+04  0.20942338+08 -0.24381122-00 -0.68792846-02  0.96979497+00  0.10411159+03
 0.22115155+03 -0.22115159+03  0.50556085+04  0.11412574+03  0.11306300+03  0.53908858+04  0.43187173+03  0.76135385+08
 0.             0.57010513+08  0.15577532+03  0.43187892+03
 0.11696156+08 -0.52295415+07  0.39550760+05  0.15202083+08  0.16702750+08  0.29574553-00 -0.84276577+09 -0.25030428+05
 0.21709383+08  0.78364550+06  0.21338456+05  0.28562566+02  0.18069667+03  0.27453512-18  0.29155215+03  0.25992747+03
 0.11224505+03  0.36150595+04  0.36026716+04  0.18094913+03  0.18123362+03  0.15225422+02

               510.0000     795123.50     20438.649      -0.54134      21826.754      -0.50691       0.      102.743        0.
               294.5407   21707181.00     0.            343.48465      17965.968       1.63142       0.       -0.128        0.
                26.1486        836.26     29310.063       0.23395         67.859      0.            0.        0.837        0.
 0.47583416-04  0.15314213+01  0.19520280+05  0.55410592+07  0.89345714+00 -0.36459177-00  0.26229604-00  0.26689063+02
 0.23394758-00  0.                            0.75915876+04  0.20967703+07  0.34772582-00  0.93113688+00  0.10981394-00  0.69651475+02
 0.16583877-01  0.             -0.61424509+04  0.20883054+08 -0.28427223-00 -0.69059919-02  0.95871533+00  0.10651535+03
 0.22115159+03 -0.22115159+03  0.50481013+04  0.11438663+03  0.11331613+03  0.53836394+04  0.43190031+03  0.76428485+08
 0.             0.57010513+08  0.15576359+03  0.43192379+03
 0.12600874+08 -0.63249634+07  0.37558877+05  0.15946130+08  0.17155204+08  0.26547801-00 -0.82054048+09 -0.28645077+05
 0.21709534+08  0.79379574+06  0.21823533+05  0.28562214+02  0.18140271+03  0.27453512-18  0.29141385+03  0.25988747+03
 0.11281665+03  0.37629267+04  0.37385743+04  0.18184110+03  0.18232979+03  0.15794627+02

               520.0000     792636.00     20975.946      -0.76840      22363.796      -0.72071       0.      103.020        0.
               295.5339   21704811.75     0.            341.36468      17289.338       1.68419       0.       -1.437        0.
                26.0267        869.09     29118.507       0.22018         67.289      0.            0.        0.889        0.
 0.85804589-04  0.15841886+01  0.19516806+05  0.57382397+07  0.88275050+00 -0.36555266-00  0.29515196-00  0.28024043+02
 0.22018247-00  0.                            0.77467917+04  0.21734596+07  0.34443540-00  0.93076229+00  0.12262407-00  0.69852666+02
-0.62812885-02  0.             -0.65914637+04  0.20819403+08 -0.31954353-00 -0.65857583-02  0.94754519+00  0.10863531+03
 0.22115159+03 -0.22115159+03  0.50353699+04  0.11440685+03  0.11332890+03  0.53749283+04  0.43213212+03  0.76720925+08
 0.             0.57010513+08  0.15574560+03  0.43273834+03
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CASE  1                                   TRAJECTORY ID  -6 NOP                             SECTION  6                               PAGE  43
 0.13815435+08 -0.73107982+07  0.35640027+05  0.16735493+08  0.17663018+08  0.22915552-00 -0.79694986+09 -0.28230300+05
 0.21710595+08  0.79405750+06  0.72356068+05  0.28562028+02  0.18242581+03  0.27453512-18  0.29097319+03  0.25984460+03
 0.11339905+03  0.39312374+04  0.38901285+04  0.18306294+03  0.18376449+03  0.16377791+02

                530.0000     785245.75     21539.620      -0.99116     22923.144      -0.93116       0.     103.300         0.
                256.1415   21701545.00            0.     339.23703     16612.725       1.76678       0.      -2.744         0.
                 25.8990        902.77     29350.997       0.24398        67.957       0.            0.       0.905         0.
-0.34859031-04  0.17667779+01  0.20323645+05  0.59394204+07  0.87050460+00 -0.36718300-00  0.32770427-00  0.29402669+02
 0.24398170-00  0.                            0.79264157+04  0.22517210+07  0.34138218-00  0.93012454+00  0.13534118-00  0.70038093+02
 0.43505804-02  0.            -0.70645901+04  0.20751145+08 -0.35450266-00 -0.55428009-02  0.53503252+00  0.11076296+03
 0.22115159+03 -0.22115159+03  0.52294217+04  0.11451394+03  0.11342651+03  0.53650872+04  0.43213941+03  0.77013470+08
 0.             0.57010513+08  0.15572098+03  0.43190791+03
 0.14762760+08 -0.61629779+07  0.33693018+05  0.17575562+08  0.18238255+08  0.19956073-00 -0.77181395+09 -0.27781539+05
 0.21713751+08  0.78801274+06  0.22937232+05  0.28561550+02  0.18396092+03  0.27453512-18  0.29003373+03  0.25980709+03
 0.11399472+03  0.41248376+04  0.40593327+04  0.18480285+03  0.18571700+03  0.16575445+02

                540.0000     784516.25     22119.897      -1.21237     23507.017      -1.14082       0.     103.586         0.
                256.7641   21697344.50            0.     337.21195     15934.484       1.83582       0.      -3.936         0.
                 25.7651        937.38     29252.834       0.16998        67.651       0.            0.       0.888         0.
 0.34457794-04  0.18358153+01  0.20741763+05  0.61447491+07  0.85892822+00 -0.36587670-00  0.35828501-00  0.30803543+02
 0.16558746-00  0.                            0.80705023+04  0.23316032+07  0.33498518-00  0.93063547+00  0.14728567-00  0.70428362+02
-0.16108118-01  0.            -0.75647941+04  0.20678020+08 -0.38737222-00 -0.64877311-02  0.92191742+00  0.11278804+03
 0.22115159+03 -0.22115159+03  0.50182742+04  0.11499020+03  0.11389273+03  0.53544159+04  0.43213154+03  0.77306485+08
 0.             0.57010513+08  0.15568536+03  0.43215017+03
 0.16065667+08 -0.48560704+07  0.31732598+05  0.18473116+08  0.19895806+08  0.14956431-00 -0.74495579+09 -0.27293878+05
 0.21721543+08  0.75620600+06  0.23475740+05  0.28561072+02  0.18650506+03  0.27453512-18  0.28809653+03  0.25976754+03
 0.11460558+03  0.43499077+04  0.42448695+04  0.18756484+03  0.18869299+03  0.17588268+02

                550.0000     779606.75     22731.569      -1.43136     24118.195      -1.34905       0.     103.878         0.
                257.4023   21652170.00            0.     335.18473     15253.014       1.93910       0.      -5.116         0.
                 25.6245        972.93     29577.129       0.25994        68.720       0.            0.       0.831         0.
 0.45265592-04  0.15391305+01  0.21172857+05  0.63543043+07  0.84601572+00 -0.36516418-00  0.38845481-00  0.32218644+02
 0.28593618-00  0.                            0.82390371+04  0.24131447+07  0.32878499-00  0.93091276+00  0.15903549-00  0.70804959+02
 0.23764379-01  0.            -0.80541764+04  0.20599753+08 -0.41969391-00 -0.68291663-02  0.90763608+00  0.11481526+03
 0.22115159+03 -0.22115159+03  0.50059438+04  0.11612474+03  0.11502003+03  0.53432201+04  0.43190692+03  0.77600417+08
 0.             0.57010513+08  0.15565033+03  0.43040352+03
 0.13567741+08 -0.33579562+07  0.29772236+05  0.19433855+08  0.19655639+08  0.10622382-00 -0.71615785+09 -0.26761125+05
 0.21743536+08  0.81779800+06  0.24054549+05  0.28561229+02  0.19145629+03  0.27453512-18  0.28377862+03  0.25972507+03
 0.11523484+03  0.46145039+04  0.44344489+04  0.19273527+03  0.19407655+03  0.18216926+02

                560.0000     773267.50     23365.382      -1.64854     24755.435      -1.55622       0.     104.175         0.
                259.0568   21685971.75            0.     333.17558     14573.808       2.01894       0.      -6.261         0.
                 25.4770       1009.48     29473.578       0.22939        68.187       0.            0.       0.985         0.
 0.11881085-03  0.20199353+01  0.21614295+05  0.65682345+07  0.83083220+00 -0.36758367-00  0.41784126-00  0.33815678+02
 0.22938971-00  0.                            0.84119639+04  0.24963967+07  0.32569297-00  0.92996831+00  0.17050871-00  0.70992436+02
-0.34188723-01  0.            -0.86540557+04  0.20516035+08 -0.45125788-00 -0.55762340-02  0.89237210+00  0.11682441+03
 0.22115159+03 -0.22115159+03  0.49924384+04  0.11826223+03  0.11714813+03  0.53318521+04  0.43191990+03  0.77893709+08
 0.             0.57010513+08  0.15560333+03  0.43151525+03
 0.15262387+08 -0.16633507+07  0.27859872+05  0.20458916+08  0.20538163+08  0.62117352-01 -0.68538453+09 -0.26179849+05
 0.21813540+08  0.88820174+06  0.24601133+05  0.28561098+02  0.20436525+03  0.27453512-18  0.27151038+03  0.25968385+03
 0.11587563+03  0.49291760+04  0.45535237+04  0.20588198+03  0.20743558+03  0.18862210+02

                570.0000     765853.50     24040.788      -1.86310     25426.195      -1.76155       0.     104.474         0.
                258.7283   21678795.00            0.     331.21206     13885.708       2.11742       0.      -7.348         0.
                 25.3221       1047.08     29410.312       0.20059        68.154       0.            0.       0.900         0.
-0.10508230-04  0.21174175+01  0.22071227+05  0.67866538+07  0.81649021+00 -0.36654478-00  0.44607143-00  0.35265020+02
 0.20058626-00  0.                            0.85518192+04  0.25814124+07  0.31847534-00  0.93037432+00  0.18156845-00  0.71429255+02
 0.33822695-01  0.            -0.92484035+04  0.20426550+08 -0.48156512-00 -0.61861919-02  0.87638208+00  0.11878793+03

CASE  1                                   TRAJECTORY ID  -6 NOP                             SECTION  6                               PAGE  44
 0.22115159+03 -0.22115159+03  0.49777746+04  0.12169199+03  0.12056354+03  0.53206182+04  0.43180656+03  0.78108633+08
 0.             0.57010513+08  0.15554784+03  0.43152582+03
 0.20514333+08 -0.11404959+05  0.26343010+05  0.21563685+08  0.21584492+08  0.31048179-01 -0.65215987+09 -0.25537421+05
 0.22254651+08  0.13289135+07  0.24756463+05  0.28560208+02  0.26016054+03  0.27453512-18  0.21637846+03  0.25964586+03
 0.11653900+03  0.53106133+04  0.49761548+04  0.26191846+03  0.26367971+03  0.19524897+02

                580.0000     757320.25     24742.495      -2.07319     26127.155      -1.96327       0.     104.782         0.
                255.4176   21670326.25            0.     329.24442     13209.053       2.22306       0.      -8.425         0.
                 25.1594       1085.78     29364.504       0.20581        67.977       0.            0.       0.897         0.
-0.36254165-04  0.22230589+01  0.22540262+05  0.70097006+07  0.80064039+00 -0.36666080-00  0.47384148-00  0.36898701+02
 0.20581479-00  0.                            0.87753357+04  0.26682435+07  0.31218615-00  0.93032858+00  0.19239970-00  0.71808972+02
 0.16300866-01  0.            -0.98771634+04  0.20330953+08 -0.51137684+00 -0.61163009-02  0.85933044+00  0.12075558+03
 0.22115159+03 -0.22115159+03  0.49615744+04  0.12671146+03  0.12557391+03  0.53098374+04  0.43180595+03  0.78482502+08
 0.             0.57010513+08  0.15548323+03  0.43197969+03
 0.21432103+08  0.50636549+06  0.26402056+05  0.22746221+08  0.22832060+08  0.61315376-01 -0.61652517+09 -0.24829924+05
 0.24232016+08  0.33062782+07  0.23351403+05  0.28560381+02  0.32406848+03  0.27453512-18  0.15315209+03  0.25960335+03
 0.11722063+03  0.57776278+04  0.34017045+04  0.32608178+03  0.32804212+03  0.20205859+02

                590.0000     747622.75     25480.034      -2.27789     26863.861      -2.16049       0.     105.095         0.
                300.1254   21660789.75            0.     327.37100     12528.390       2.33308       0.      -9.393         0.
                 24.9983       1125.62     29229.783       0.08954        67.586       0.            0.       0.960         0.
-0.28000899-04  0.23330836+01  0.23024431+05  0.72375129+07  0.78424786+00 -0.36768757-00  0.49975183-00  0.38348831+02
 0.85535136-01  0.                            0.89648347+04  0.27569398+07  0.30694147-00  0.92992786+00  0.20251123-00  0.72124994+02
 0.10003415-01  0.            -0.10543925+05  0.20228878+08 -0.57919712+00 -0.54245197-02  0.84215754+00  0.12262899+03
 0.22115159+03 -0.22115159+03  0.49450613+04  0.13359214+03  0.13244499+03  0.52990045+04  0.43181071+03  0.78776361+08
 0.             0.57010513+08  0.15540884+03  0.43248162+03
 0.21510302+08  0.58456449+06  0.27032571+05  0.24019540+08  0.24351417+08  0.11667144-00 -0.57805832+09 -0.24042843+05
 0.27192532+08  0.62667947+07  0.21383767+05  0.28560544+02  0.33898786+03  0.27453512-18  0.13893351+03  0.25956091+03
 0.11792133+03  0.63638260+04  0.34750932+04  0.34126810+03  0.34341485+03  0.20906014+02

                600.0000     736728.00     26252.537      -2.47213     27635.467      -2.34835       0.     105.411         0.
                300.8526   21650064.00            0.     325.81729     11853.044       2.45784       0.     -10.032         0.
                 24.8085       1166.68     29132.848       0.16144        67.330       0.            0.       1.057         0.
-0.35505437-05  0.24578367+01  0.23521734+05  0.74702338+07  0.76969814+00 -0.36520506-00  0.52081291+00  0.39673389+02
 0.16144107-00  0.                            0.91609564+04  0.28475629+07  0.30315097-00  0.92933195+00  0.21078699-00  0.72353044+02
-0.13185539-01  0.            -0.11248787+05  0.20119947+08 -0.56183501+00 -0.43570598-02  0.82723309+00  0.12418279+03
 0.22115159+03 -0.22115159+03  0.49270762+04  0.14240242+03  0.14123717+03  0.52906302+04  0.43188504+03  0.79068436+08
 0.             0.57010513+08  0.15532399+03  0.43268469+03
 0.21525358+08  0.60366049+06  0.27767015+05  0.25387875+08  0.26230381+08  0.17921897-00 -0.53665021+09 -0.23165712+05
 0.30521362+08  0.10005624+08  0.19326893+05  0.28559391+02  0.34443520+03  0.27453512-18  0.13420255+03  0.25952360+03
 0.11863774+03  0.71144086+04  0.37686242+04  0.34699020+03  0.34930182+03  0.21626349+02

                610.0000     724621.50     27072.636      -2.65907     28454.580      -2.52603       0.     105.734         0.
                301.6901   21638134.25            0.     324.29981     11173.713       2.62613       0.     -10.626         0.
                 24.6192       1209.02     29343.595       0.10600        67.964       0.            0.       0.894         0.
-0.17524481-03  0.26261274+01  0.24042118+05  0.77080285+07  0.75657883+00 -0.36721870-00  0.54104467+00  0.40836484+02
 0.10555852-00  0.                            0.93652091+04  0.29401861+07  0.29505274-00  0.93011054+00  0.21869539-00  0.72839301+02
 0.85245230-01  0.            -0.11557189+05  0.20003761+08 -0.58354385+00 -0.58236463-02  0.81205580+00  0.12570018+03
 0.22115159+03 -0.22115159+03  0.49080832+04  0.15324023+03  0.15206180+03  0.52824750+04  0.43185908+03  0.79361770+08
 0.             0.57010513+08  0.15522809+03  0.43175309+03
 0.21532004+08  0.60626599+06  0.28567044+05  0.26878417+08  0.28644440+08  0.24830074-00 -0.45142309+09 -0.22168064+05
 0.35756874+08  0.14831136+08  0.17202446+05  0.28559145+02  0.34724581+03  0.27453512-18  0.13212871+03  0.25948276+03
 0.11537851+03  0.81188106+04  0.42276879+04  0.35008958+03  0.35253809+03  0.22367954+02

                620.0000     711293.00     27939.546      -2.81997     29320.425      -2.68706       0.     106.064         0.
                302.3693   21624990.25            0.     322.90395     10497.628       2.77622       0.     -11.092         0.
                 24.4199       1252.72     29143.767       0.10570        67.367       0.            0.       0.912         0.
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CASE  1                          TRAJECTORY ID  -6 NOM                                    SECTION  6                            PAGE  45
-0.82272220-04  0.27762239+01  0.24583598+05  0.79511415+07  0.74297023+00 -0.36764703-00  0.55930416+00  0.42014948+02
 0.10565748-00  0.             0.95776387+04  0.30348931+07  0.29015974-00  0.92994317+00  0.22583677-00  0.73132479+02
 0.27338424-01  0.            -0.12799573+05  0.19879864+08 -0.60315295+00 -0.55024903-02  0.79760142+00  0.12709604+03
 0.22115159+03 -0.22115159+03  0.48881557+04  0.16596317+03  0.16477265+03  0.52752703+04  0.43190722+03  0.79654009+08
 0.             0.57010513+08  0.15512045+03  0.43261075+03
 0.21527591+08  0.60185300+06  0.29420701+05  0.28497127+08  0.31833728+08  0.32374895-00 -0.44218946+05 -0.21028301+05
 0.42135865+08  0.21214128+08  0.15329873+05  0.28559159+02  0.34898692+03  0.27453512-18  0.13115592+03  0.25944093+03
 0.12014280+03  0.95118102+04  0.48565758+04  0.35211659+03  0.25466079+03  0.23132199+02

                630.0000     696771.00     28856.753     -2.95893     30236.522     -2.82379      0.     106.400       0.
                303.1612   21610667.25        0.        321.86611      9827.515      2.95247      0.     -11.203       0.
                 24.2258      1297.86      29015.416      0.13362        66.985      0.           0.       0.886       0.
-0.44366229-04  0.29574671+01  0.25149918+05  0.81997880+07  0.73277386+00 -0.36753765-00  0.57266794+00  0.42880556+02
 0.13361534-00  0.             0.97995753+04  0.31317706+07  0.28587669-00  0.92998569+00  0.23106312-00  0.73388739+02
 0.58853104-02  0.            -0.13627077+05  0.19747816+08 -0.61750118+00 -0.56046362-02  0.78654464+00  0.12813388+03
 0.22115159+03 -0.22115159+03  0.48674060+04  0.18014720+03  0.17894395+03  0.52687047+04  0.43200803+03  0.79944247+08
 0.             0.57010513+08  0.15500063+03  0.43316405+03
 0.21515741+08  0.59400400+06  0.30327400+05  0.30258588+08  0.36233709+08  0.40608503-00 -0.38849290+09 -0.15710223+05
 0.50547676+08  0.30021938+08  0.12809962+05  0.28559122+02  0.35020818+03  0.27453512-18  0.13072274+03  0.25939929+03
 0.12053090+03  0.11550508+05  0.58568630+04  0.35362719+03  0.35620975+03  0.23920409+02

                640.0000     681119.00     29846.154     -3.07108     31224.768     -2.93537      0.     106.741       0.
                303.9772   21595213.25        0.        321.04596      9150.586      3.21642      0.     -11.097       0.
                 23.5981      1344.53      29432.123      0.02182        68.227      0.           0.       0.917       0.
 0.64715927-05  0.32164195+01  0.25756204+05  0.84542764+07  0.72419071+00 -0.36816549-00  0.58308816+00  0.43598434+02
 0.21824524-01  0.             0.10037450+05  0.32309369+07  0.28333472-00  0.92974026+00  0.23514545-00  0.73540667+02
-0.15525776-02  0.            -0.14520802+05  0.19607125+08 -0.62865687+00 -0.50810590-02  0.77762832+00  0.12895404+03
 0.22115159+03 -0.22115159+03  0.48459818+04  0.19562228+03  0.19440525+03  0.52627557+04  0.43198910+03  0.80236773+08
 0.             0.57010513+08  0.15486839+03  0.43138678+03
 0.21805554+08  0.58421599+06  0.31307402+05  0.32216413+08  0.42826708+08  0.49774440-00 -0.32868597+09 -0.18129698+05
 0.64143462+08  0.43217723+08  0.10498665+05  0.28558974+02  0.35115942+03  0.27453512-18  0.13058487+03  0.25935799+03
 0.12174425+03  0.14842393+05  0.75274879+04  0.35487378+03  0.35742191+03  0.24734230+02

                650.0000     664422.50     30912.990     -3.14219     32290.433     -3.00802      0.     107.090       0.
                304.8154   21578729.75        0.        320.60588      8472.803      3.43791      0.     -10.624       0.
                 23.7535      1392.88      29128.713     -0.00052        67.330      0.           0.       0.978       0.
-0.13222209-04  0.34379075+01  0.26438035+05  0.87150630+07  0.71916841+00 -0.36919682-00  0.58862565+00  0.44014134+02
-0.51635716-03  0.             0.10293125+05  0.33325754+07  0.28285172-00  0.92933565+00  0.23731613-00  0.73569521+02
 0.42817595-02  0.            -0.15470596+05  0.19457215+08 -0.63465114+00 -0.41765136-02  0.77278179+00  0.12939411+03
 0.22115155+03 -0.22115155+03  0.48240572+04  0.21140181+03  0.21017110+03  0.52566106+04  0.43203845+03  0.80529571+08
 0.             0.57010513+08  0.15472360+03  0.43262906+03
 0.21455465+08  0.57372724+06  0.32364827+05  0.34355851+08  0.53728087+08  0.59984681+00 -0.26199590+09 -0.16186287+05
 0.85556708+08  0.65030970+08  0.80950806+04  0.28558862+02  0.35197322+03  0.27453512-18  0.13061237+03  0.25931658+03
 0.12258558+03  0.27856142+05  0.10521361+05  0.35598072+03  0.35838969+03  0.25575839+02

                660.0000     646872.25     32068.338     -3.15885     33444.643     -3.02874      0.     107.442       0.
                305.6997   21561403.00        0.        320.46119      7796.111      3.76659      0.      -9.881       0.
                 23.5061      1443.02      29364.788     -0.05710        68.034      0.           0.       0.840       0.
-0.20275716-04  0.37665546+01  0.27115134+05  0.89826202+07  0.71840624+00 -0.36776444-00  0.59045006+00  0.44076947+02
-0.57058601-01  0.             0.10571779+05  0.34368794+07  0.28039639-00  0.92989677+00  0.23803040-00  0.73716135+02
 0.11571183-01  0.            -0.16478808+05  0.19297526+08 -0.63660075+00 -0.54424510-02  0.77116852+00  0.12953880+03
 0.22115159+03 -0.22115159+03  0.48018930+04  0.22645681+03  0.22520606+03  0.52495014+04  0.43200216+03  0.80821991+08
 0.             0.57010513+08  0.15456705+03  0.43162042+03
 0.21485162+08  0.56342450+06  0.33510200+05  0.36838096+08  0.75206322+08  0.71426388+00 -0.18717227+09 -0.13681091+05
 0.12892348+05  0.13799774+09  0.55855213+04  0.28557567+02  0.35272901+03  0.27453512-18  0.13072450+03  0.25927898+03
 0.12348345+03  0.34539293+05  0.17351207+05  0.35702816+03  0.35914989+03  0.26447436+02

CASE  1                          TRAJECTORY ID  -6 NOM                                    SECTION  6                            PAGE  46

                670.0000     628737.25     33337.284     -3.10538     34712.490     -2.98224      0.     107.805       0.
                306.5907   21543503.25        0.        320.76206      7115.178      4.16713      0.      -8.730       0.
                 23.2433      1495.14      29649.500      0.00198        68.985      0.           0.       0.829       0.
 0.43023542-04  0.41671340+01  0.27900807+05  0.92576282+07  0.72142017+00 -0.36791487-00  0.58666934+00  0.43828142+02
 0.15760857-02  0.             0.10879496+05  0.35441066+07  0.28183897-00  0.92983796+00  0.23655152-00  0.73630010+02
-0.14180503-01  0.            -0.17553874+05  0.19127420+08 -0.63254232+00 -0.53067841-02  0.77450172+00  0.12923793+03
 0.22115159+03 -0.22115159+03  0.47798149+04  0.23957139+03  0.23830912+03  0.52405378+04  0.43195637+03  0.81115830+08
 0.             0.57010513+08  0.15440030+03  0.42980022+03
 0.21479825+08  0.55408750+06  0.34768245+05  0.39621526+08  0.13821615+09  0.84459251+00 -0.10184433+09 -0.10091795+05
 0.25455248+09  0.23402674+09  0.29292354+04  0.28557720+02  0.35348617+03  0.27453512-18  0.13087223+03  0.25923672+03
 0.12438836+03  0.86053815+05  0.43097281+05  0.35810743+03  0.35970559+03  0.27351872+02

                675.0800     612084.00     34626.674     -2.98902     36000.960     -2.87482      0.     108.140       0.
                307.4383   21527074.00        0.        320.82805      6480.234      4.63192      0.      -7.927       0.
                 22.9904      1544.35      30015.946      0.00044        70.165      0.           0.       0.875       0.
-0.             0.46319229+01  0.28712859+05  0.95145798+07  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.43584350-03  0.             0.11197610+05  0.36443067+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
-0.24859921-03  0.            -0.18607913+05  0.18963300+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.47601862+04  0.24943593+03  0.24816282+03  0.52307737+04  0.43173579+03  0.81387656+08
 0.             0.57010513+08  0.15424246+03  0.42779060+03
 0.21472430+08  0.54669274+06  0.36047152+05  0.42560676+08  0.12000968+10  0.98210775+00 -0.11729471+08 -0.34248316+04
 0.23787212+10  0.23577954+10  0.32539332+03  0.28557688+02  0.35419796+03  0.10435914+02  0.13101310+03  0.25919887+03
 0.12521103+03  0.22016908+07  0.11009058+07  0.35944828+03  0.35999011+03  0.28204624+02

                675.0800     612084.00     34626.674     -2.98902     36000.960     -2.87482      0.     108.140       0.
                307.4383   21527074.00        0.        320.82805      6480.234      4.63192      0.      -7.927       0.
                 22.9904      1544.35      30015.946      0.00044        70.165      0.           0.       0.875       0.
-0.             0.46319229+01  0.28712859+05  0.95145798+07  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.43584350-03  0.             0.11197610+05  0.36443067+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
-0.24859921-03  0.            -0.18607913+05  0.18963300+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115155+03 -0.22115159+03  0.47601862+04  0.24943593+03  0.24816282+03  0.52307737+04  0.43173579+03  0.81387656+08
 0.             0.57010513+08  0.15424246+03  0.42779060+03
 0.21472430+08  0.54669274+06  0.36047152+05  0.42560476+08  0.12000968+10  0.98210775+00 -0.11729471+08 -0.34248316+04
 0.23787212+10  0.23577954+10  0.32539332+03  0.28557688+02  0.35419796+03  0.10435914+02  0.13101310+03  0.25919887+03
 0.12521103+03  0.22016908+07  0.11009058+07  0.35944828+03  0.35999011+03  0.28204624+02
DELTA DECAY

                675.1700     611919.25     34643.235     -2.98837     36017.512     -2.87424      0.     108.143       0.
                307.4468   21526911.50        0.        320.82805      6454.262      6.81790      0.      -7.919       0.
                 22.5879      1544.85      44004.508      0.            507.019      0.           0.       0.875       0.
 0.             0.68178993+01  0.28723614+05  0.95171642+07  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.11201839+05  0.36453146+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.18620794+05  0.18961625+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115155+03 -0.22115159+03  0.47595548+04  0.24955641+03  0.24828309+03  0.52307028+04  0.43040136+03  0.81390986+08
 0.             0.57010513+08  0.15424088+03  0.86790583+02
 0.21472339+08  0.54660100+06  0.36063624+05  0.42599219+08  0.13346024+10  0.98391104+00 -0.10547312+08 -0.32476625+04
 0.26477325+10  0.26268068+10  0.29246547+03  0.28557672+02  0.35420448+03  0.11000891+02  0.13101514+03  0.25919854+03
 0.12521961+03  0.25820211+07  0.12510709+07  0.35947765+03  0.35999158+03  0.28213235+02

                675.1800     611500.75     34644.237     -2.98812     36018.613     -2.87401      0.     108.143       0.
                307.4478   21526893.25        0.        320.82805      6451.726      0.00000      0.      -7.919       0.
                 22.5876      1544.91          0.002      0.              0.000      0.           0.       0.875       0.
 0.             0.29382308-06  0.28724271+05  0.95174515+07  0.72166242+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.11202098+05  0.36454266+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.18621755+05  0.18961439+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115155+03 -0.22115159+03  0.47595735+04  0.24956437+03  0.24829104+03  0.52306893+04  0.43041929+03  0.81391206+08
 0.             0.57010513+08  0.15424070+03  0.12472997+02
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CASE  1                                    TRAJECTORY ID  -6 ACP                            SECTION  6                            PAGE  47
 0.21472339+08  0.54659700+06  0.36064711+05  0.42601765+08  0.13445721+10  0.98403036+00 -0.10469104+08 -0.32359904+04
 0.26676719+10  0.26467461+10  0.29928815+03  0.28557670+02  0.35420532+03  0.11037184+02  0.13101527+03  0.25919050+03
 0.12572056+03  0.26110072+07  0.13055639+07  0.35947967+03  0.35999168+03  0.28214196+02

               680.0000     610409.00     34645.643     -2.94765     36015.863     -2.83510      0.     108.176        0.
               307.5257  21525427.00         0.        320.82805      6451.726     -0.00000      0.      -7.880        0.
                22.5640      1549.44      -0.002          0.            0.000        0.          0.       0.876        0.
 0.            -0.33122077-06  0.28713251+05  0.95410019+07  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.11197849+05  0.36546107+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547720+02
 0.             0.            -0.18643710+05  0.18946155+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.47582380+04  0.24956438+03  0.24829105+03  0.52289540+04  0.43041929+03  0.81391206+08
 0.             0.57010513+08  0.15422633+03  0.17870155+02
 0.21472335+08  0.54659724+06  0.36064718+05  0.42601789+08  0.13446542+10  0.98403136+00 -0.10468448+08 -0.32354981+04
 0.26678400+10  0.26469143+10  0.29926991+03  0.28557696+02  0.35428375+03  0.11037487+02  0.13101540+03  0.25919501+03
 0.12529514+03  0.26112521+07  0.13056855+07  0.35948674+03  0.35999179+03  0.28292713+02

               690.0000     593823.25     34660.167     -2.45378     36033.753     -2.36919      0.     108.577        0.00
               308.4747  21505091.75         0.        320.82805      6451.726     -0.00000      0.      -7.416        0.
                22.6735      1604.80      -0.032          0.           -0.000        0.          0.       0.887        0.
 0.            -0.45381571-05  0.28576490+05  0.98274527+07  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.11145108+05  0.37663269+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547720+02
 0.             0.            -0.18910372+05  0.18759386+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.47383741+04  0.24956636+03  0.24829303+03  0.52090921+04  0.43041932+03  0.81391206+08
 0.10380000+03  0.57010873+08  0.15406387+03 -0.56209371+04
 0.21472316+08  0.54657874+06  0.36064846+05  0.42602015+08  0.13456627+10  0.98404332+00 -0.10469640+08 -0.32342912+04
 0.26656531+10  0.26489273+10  0.29905183+03  0.28557992+02  0.35524134+03  0.11041112+02  0.13101692+03  0.25915236+03
 0.12625825+03  0.26141846+07  0.13071418+07  0.35957303+03  0.35999217+03  0.29251058+02

               700.0000     580216.75     34672.095     -1.95929     36045.137     -1.88462      0.     108.971        0.00
               309.4200  21495743.75         0.        320.82805      6451.726     -0.00001      0.      -6.951        0.
                22.3764      1660.23      -0.053          0.           -0.000        0.          0.       0.898        0.
 0.            -0.81435856-05  0.28435391+05  0.10112515+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.11090681+05  0.38775070+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.19174911+05  0.18567556+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.47239244+04  0.24957055+03  0.24829721+03  0.51916464+04  0.43041936+03  0.81391206+08
 0.10421628+03  0.57011908+08  0.15352683+03 -0.92710914+04
 0.21472308+08  0.54657049+06  0.36064557+05  0.42602246+08  0.13466658+10  0.98405521+00 -0.10452848+08 -0.32330864+04
 0.26718593+10  0.26509335+10  0.28583483+03  0.28559294+02  0.35620021+03  0.11044718+02  0.13101845+03  0.25910974+03
 0.12721665+03  0.26171081+07  0.13095535+07  0.35965923+03  0.35999456+03  0.30210727+02

               710.0000     569555.75     34681.414     -1.46430     36054.002     -1.40854      0.     109.360        0.00
               310.3638  21485383.75         0.        320.82805      6451.726     -0.00001      0.      -6.485        0.
                22.0730      1715.73      -0.073          0.           -0.000        0.          0.       0.909        0.
 0.            -0.11349914-04  0.28290018+05  0.10396145+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.11034591+05  0.35981346+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.19437174+05  0.18374893+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.47359043+04  0.24957680+03  0.24830347+03  0.51766326+04  0.43041941+03  0.81391206+08
 0.10404424+03  0.57012948+08  0.15381738+03 -0.12918199+05
 0.21472298+08  0.54656024+06  0.36065072+05  0.42602477+08  0.13476507+10  0.98406687+00 -0.10445184+08 -0.32319009+04
 0.26738790+10  0.26529032+10  0.28562210+03  0.28558598+02  0.35716014+03  0.11048249+02  0.13101999+03  0.25906713+03
 0.12818011+03  0.26199796+07  0.13100193+07  0.35974546+03  0.35999593+03  0.31171457+02

               720.0000     561566.50     34688.111     -0.56894     36060.337     -0.93206      0.     109.743        0.00
               311.3933  21478018.00         0.        320.82805      6451.726     -0.00001      0.      -6.018        0.
                21.7634      1771.27      -0.094          0.           -0.000        0.          0.       0.920        0.
 0.            -0.14554442-04  0.28140440+05  0.10678300+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.10576867+05  0.40981921+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.19697005+05  0.18179219+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
CASE  1                                    TRAJECTORY ID  -6 ACP                            SECTION  6                            PAGE  48
 0.22115159+03 -0.22115159+03  0.46933260+04  0.24958511+03  0.24831177+03  0.51640626+04  0.43041945+03  0.81391206+08
 0.10406433+03  0.57013988+08  0.15373737+03 -0.16566829+05
 0.21472285+08  0.54655124+06  0.36065194+05  0.42602707+08  0.13486162+10  0.98407828+00 -0.10437728+08 -0.32307472+04
 0.26757601+10  0.26548343+10  0.28941395+03  0.28559906+02  0.35812086+03  0.11051713+02  0.13102155+03  0.25902455+03
 0.12514234+03  0.26227559+07  0.13114174+07  0.35983165+03  0.35999731+03  0.32132985+02

               730.0000     557333.25     34692.180     -0.47334     36064.135     -0.45533      0.     110.119        0.00
               312.7390  21473650.50         0.        320.82805      6451.726     -0.00002      0.      -5.552        0.
                21.4480      1826.85      -0.115          0.           -0.000        0.          0.       0.931        0.
 0.            -0.17759853-04  0.27986730+05  0.10958539+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.10917536+05  0.42076663+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.19954251+05  0.17980559+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46831989+04  0.24959548+03  0.24832214+03  0.51539459+04  0.43041949+03  0.81391206+08
 0.10407653+03  0.57015028+08  0.15368821+03 -0.20218761+05
 0.21472281+08  0.54654325+06  0.36065295+05  0.42602934+08  0.13495617+10  0.98408944+00 -0.10430399+08 -0.32256129+04
 0.26776512+10  0.26567254+10  0.28521023+03  0.28559217+02  0.35908196+03  0.11055093+02  0.13102311+03  0.25858199+03
 0.13010508+03  0.26255547+07  0.13127868+07  0.35951778+03  0.35999865+03  0.33095041+02

               740.0000     555699.50     34693.616      0.02237     36065.391      0.02152      0.     110.488        0.00
               313.1708  21472283.50         0.        320.82805      6451.726     -0.00002      0.      -5.085        0.
                21.1267      1882.45      -0.135          0.           -0.000        0.          0.       0.942        0.
 0.            -0.20965300-04  0.27828971+05  0.11238020+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.10856630+05  0.43165381+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.20208769+05  0.17780140+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46755297+04  0.24960791+03  0.24833458+03  0.51462892+04  0.43041953+03  0.81391206+08
 0.10408084+03  0.57016068+08  0.15367079+03 -0.23868013+05
 0.21472280+08  0.54654200+06  0.36065393+05  0.42603161+08  0.13504824+10  0.98410029+00 -0.10423312+08 -0.32285154+04
 0.26794575+10  0.26585668+10  0.28501225+03  0.28559528+02  0.44234659-01  0.11058380+02  0.13102467+03  0.25893945+03
 0.13106607+03  0.26282415+07  0.13141204+07  0.39623635-02  0.63000458-04  0.34057357+02

               747.7000     556486.00     34692.925      0.40406     36064.624      0.38869      0.     110.768        0.00
               313.8854  21473276.50         0.        320.82805      6451.726     -0.00002      0.      -4.726        0.
                20.8756      1925.25      -0.151          0.           -0.000        0.          0.       0.950        0.
 0.            -0.23433510-04  0.27704791+05  0.11451826+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.10808680+05  0.43999498+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.20402795+05  0.17623784+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46713018+04  0.24961890+03  0.24834556+03  0.51420722+04  0.43041957+03  0.81391206+08
 0.10407877+03  0.57016868+08  0.15367522+03 -0.26665189+05
 0.21472277+08  0.54653975+06  0.36065470+05  0.42603336+08  0.13511680+10  0.98410836+00 -0.10418031+08 -0.32276975+04
 0.26808637+10  0.26559380+10  0.28886593+03  0.28559767+02  0.78344049+00  0.11060826+02  0.13102590+03  0.25890670+03
 0.13180955+03  0.26302435+07  0.13151136+07  0.70117013-01  0.11136810-02  0.34798345+02

               747.8000     556508.00     34693.662      0.40892     36065.360      0.39336      0.     110.772        0.00
               313.8946  21473300.75         0.        320.82805      6451.716      0.47174      0.      -4.721        0.
                20.8723      1925.81     3043.505         0.            0.206        0.          0.       0.950        0.
 0.             0.47173572-00  0.27703711+05  0.11454596+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.             0.             0.10808267+05  0.44012306+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.             0.            -0.20405783+05  0.17621743+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46712565+04  0.24962036+03  0.24834703+03  0.51420284+04  0.43043124+03  0.81391358+08
 0.10408059+03  0.57016878+08  0.15367946+03  0.14773887+05
 0.21472280+08  0.54654174+06  0.36066223+05  0.42605125+08  0.13582832+10  0.98419160+00 -0.10363424+08 -0.32192272+04
 0.26550541+10  0.26741684+10  0.28734581+03  0.28559769+02  0.79284393+00  0.11086026+02  0.13102614+03  0.25890628+03
 0.13181518+03  0.26510470+07  0.13255152+07  0.70770577-01  0.11186144-02  0.34807967+02
END DECAY
BEGIN DELAY

               747.8000     556507.75     34693.662      0.40892     36065.360      0.39336      0.     110.772        0.00
               313.8946  21473300.50         0.        320.82805      6451.716      0.           0.      -4.721        0.
                20.8723      1925.81         0.            0.            0.206        0.          0.       0.950        0.
```

```
CASE  1                                TRAJECTORY ID  -6 NOM                        SECTION  6                               PAGE  49
 0.              0.              0.27703711+05  0.11454596+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43809095+02
 0.              0.              0.10838267+05  0.44010306+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.              0.             -0.20405783+05  0.17621743+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46712565+04  0.24961897+03  0.24834564+03  0.51420270+04  0.43041885+03  0.81391206+08
 0.10408098+03  0.57016878+08  0.15367946+03  0.
 0.21472279+08  0.54654124+06  0.36066224+05  0.42605124+08  0.13582819+10  0.98419159+00 -0.10363439+08 -0.32192297+04
 0.26550915+10  0.26741657+10  0.28734609+03  0.28559769+02  0.79293647+00  0.11086021+02  0.13102613+03  0.25890628+03
 0.13181918+03  0.26510432+07  0.13255133+07  0.70779115-01  0.11185735-02  0.34807967+02
ENG DELAY

            747.8000     556507.75     34693.662      0.40892     36065.360       0.39336        0.     110.772          0.00
            313.8946   21473300.50        0.          320.82805      4367.716     0.             0.      -4.721          0.
             20.8723       1925.81        0.            0.              0.206     0.             0.       0.950          0.
 0.              0.              0.27703711+05  0.11454596+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.              0.              0.10838267+05  0.44010306+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.              0.             -0.20405783+05  0.17621743+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46712565+04  0.24961897+03  0.24834564+03  0.51420270+04  0.43041885+03  0.81391206+08
 0.10408098+03  0.57016878+08  0.15367946+03  0.
 0.21472279+08  0.54654124+06  0.36066224+05  0.42605124+08  0.13582819+10  0.98419159+00 -0.10363439+08 -0.32192297+04
 0.26550915+10  0.26741657+10  0.28734609+03  0.28559769+02  0.79293647+00  0.11086021+02  0.13102613+03  0.25890628+03
 0.13181918+03  0.26510432+07  0.13255133+07  0.70779115-01  0.11185735-02  0.34807967+02
```

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CASE  1                                TRAJECTORY ID  -6 NOM                        SECTION  7                               PAGE  50
            TIME          ALTITUDE      VELOCITY RA   FLT PATH R    VELOCITY I    FLT PATH I  AXL FORCE    VEL R AZ       DYNM PRS
            LONGITUDE     R MAGNITUDE   THRST FIXED   PITCH ATT     WEIGHT        AXL LD FCTR NORM FORCE   ALPHA           ATM PRS
            GEOCENT LAT   GRND RANGE    THRST CONTL   PITCH RATE    WEIGHT DOT    MACH NUMBER SIDE FORCE   BETA           REY NUMB
ENGLISH UNITS
   CM XI           AC XI           VMU             RMU             L11             L12             L13             ACOL11
   CM ETA          AC ETA          VMV             RMV             L21             L22             L23             ACOL12
   CM ZET          AC ZET          VMW             RMW             L31             L32             L33             ACOL13
   D LOSS          G LOSS          M LOSS          ML ALF          ML BET          T LOSS          SP IMP          TOT IM
   H FLUX          H PARA          DBLOSS          IISP
   PERRAD          PERALT          PERVEL          SEMILR          SEMIMA          ECCENT          VISVIV          V-INFI
   APORAD          APOALT          APOVEL          ORBINC          TRU AN          SEMIVA          PERIAP          LONASN
   POSARG          PERIOD          TIMEAP          ECC AN          MEANAN          RNGANG

            747.8000     556507.75     34693.662      0.40892     36065.360       0.39336        0.     110.772          0.00
            313.8946   21473300.50        0.          320.82805      4367.716    -0.31367        0.      -4.721          0.
             20.8723       1925.81    -1370.000       0.              0.          0.             0.       0.950          0.
 0.             -0.31366511-00  0.27703711+05  0.11454596+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.              0.              0.10838267+05  0.44010306+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.              0.             -0.20405783+05  0.17621743+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46712565+04  0.24961897+03  0.24834564+03  0.51420270+04  0.              0.81391206+08
 0.10408098+03  0.57016878+08  0.15367946+03  0.
 0.21472279+08  0.54654124+06  0.36066224+05  0.42605124+08  0.13582819+10  0.98419159+00 -0.10363439+08 -0.32192297+04
 0.26550915+10  0.26741657+10  0.28734609+03  0.28559769+02  0.79293647+00  0.11086021+02  0.13102613+03  0.25890628+03
 0.13181918+03  0.26510432+07  0.13255133+07  0.70779115-01  0.11185735-02  0.34807967+02

            748.0000     556552.00     34692.617      0.41897     36064.313       0.40303        0.     110.779          0.00
            313.9132   21473350.75        0.          320.82805      4367.716     0.             0.      -4.712          0.
             20.8658       1926.92        0.            0.              0.          0.             0.       0.950          0.
 0.              0.              0.27695725+05  0.11460137+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.              0.              0.10806723+05  0.44031922+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.              0.             -0.20410161+05  0.17617661+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46711666+04  0.25163560+03  0.25036228+03  0.51439537+04  0.              0.81391343+08
 0.10407785+03  0.57016898+08  0.15367593+03  0.
 0.21472276+08  0.54653845+06  0.36065225+05  0.42602750+08  0.13488603+10  0.98408117+00 -0.10435840+08 -0.32304550+04
 0.26762484+10  0.26553226+10  0.28936120+03  0.28555778+02  0.81246875+00  0.11052579+02  0.13102587+03  0.25890543+03
 0.13183844+03  0.26235081+07  0.13117455+07  0.72776945-01  0.11584457-02  0.34827214+02

            750.0000     557065.75     34692.168      0.51810     36063.854       0.49835        0.     110.851          0.00
            314.0983   21473518.00        0.          320.82805      4367.716     0.             0.      -4.618          0.
             20.8000       1538.04        0.            0.              0.          0.             0.       0.953          0.
 0.              0.              0.27667069+05  0.11515503+08  0.72166243+00 -0.36877561-00  0.58583018+00  0.43808095+02
 0.              0.              0.10794112+05  0.44247530+07  0.28321654-00  0.92950080+00  0.23623075-00  0.73547728+02
 0.              0.             -0.20460254+05  0.17576791+08 -0.63164586+00 -0.45620737-02  0.77523433+00  0.12917195+03
 0.22115159+03 -0.22115159+03  0.46703221+04  0.25163560+03  0.25036228+03  0.51431093+04  0.              0.81391343+08
 0.10407650+03  0.57017106+08  0.15368542+03  0.
 0.21472280+08  0.54654250+06  0.36065239+05  0.42602801+08  0.13490487+10  0.98408339+00 -0.10434368+08 -0.32302272+04
 0.26766251+10  0.26556994+10  0.28932065+03  0.28559840+02  0.10044503+01  0.11053258+02  0.13102618+03  0.25889692+03
 0.13203102+03  0.26240577+07  0.13122184+07  0.85971546-01  0.14320168-02  0.35019660+02

NS DRIVEN

MSH. OMEGA   0.75558779+00   0.              0.              0.

NS DRIVEN

MSH. OMEGA   0.20001221-00   0.              0.18755964+01   0.

            760.0000     561433.50     34688.345      1.01363     36060.034       0.97507        0.     111.207          0.00
            315.0213   21478555.00        0.          307.32416      4367.716     0.             0.     -17.656          0.
```

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                 20.4679      1993.62        0.         1.87560         0.            0.           0.       1.000         0.
0.               0.                     0.27591484+05  0.11791349+08  0.56490777+00 -0.36877561-00  0.73815494+00  0.55604111+02
0.18755964+01    0.                     0.10730162+05  0.45324156+07  0.22022194-00  0.92950080+00  0.29583584-00  0.77277930+02
0.               0.                    -0.20798887+05  0.17370942+08 -0.79521783+00 -0.45620737-02  0.60629879+00  0.14267583+03
```

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CASE  1                          TRAJECTORY ID  -6 NOP                         SECTION  7                          PAGE  51
 0.22115159+03 -0.22115159+03  0.46675771+04  0.25163560+03  0.25036228+03  0.51403642+04  0.                 0.81391343+08
 0.10406503+03  0.57018146+08  0.15373188+03  0.
 0.21472284+08  0.54654624+06  0.36065340+05  0.42603054+08  0.13500240+10  0.98409485+00 -0.10426864+08 -0.32290655+04
 0.26785759+10  0.26576501+10  0.28511080+03  0.28560154+02  0.19659276+01  0.11056744+02  0.13102776+03  0.25885443+03
 0.13299367+03  0.26269040+07  0.13134315+07  0.17603361-00  0.27596805-02  0.35981680+02

               770.0000    568798.75    34681.894     1.50890    36053.676     1.45148      0.     111.557         0.00
               315.5356  21486190.25          0.    288.56566     4367.716     0.           0.     -35.946         0.
                20.1307      2049.16          0.      1.87560        0.        0.           0.       1.201         0.
0.               0.                     0.27332126+05  0.12065521+08  0.29756427-00 -0.36877561-00  0.88059570+00  0.72688635+02
0.18755964+01    0.                     0.10664745+05  0.46393914+07  0.11340489-00  0.92959080+00  0.35093567-00  0.83483367+02
0.               0.                    -0.20554372+05  0.17162623+08 -0.94793715+00 -0.45620737-02  0.31840938-00  0.16143033+03
0.22115159+03 -0.22115159+03  0.46672921+04  0.25163560+03  0.25036228+03  0.51400792+04  0.                 0.81391343+08
0.10404568+03  0.57019186+08  0.15380528+03  0.
0.21472290+08  0.54655275+06  0.36065438+05  0.42603310+08  0.13509731+10  0.98410606+00 -0.10419520+08 -0.32279281+04
0.26804739+10  0.26555481+10  0.28890695+03  0.28560469+02  0.29263663+01  0.11060134+02  0.13102935+03  0.25881195+03
0.13395575+03  0.26296744+07  0.13148067+07  0.26197105-00  0.41643609-02  0.36943153+02

               780.0000    575157.50    34672.822     2.00377    36044.790     1.92747      0.     111.899         0.00
               316.8528  21496818.25          0.    265.62999     4367.716     0.           0.     -54.236         0.
                19.7886      2104.65          0.      1.87560        0.        0.           0.       1.683         0.
0.               0.                     0.27159099+05  0.12337989+08 -0.13824520-02 -0.36877561-00  0.92951126+00  0.90079211+02
0.18755964+01    0.                     0.10559790+05  0.47457059+07 -0.54564808-02  0.92950080+00  0.36876374-00  0.90312634+02
0.               0.                    -0.21196572+05  0.16951866+08 -0.99997514+00 -0.45620737-02 -0.32571633-02  0.17962990+03
0.22115159+03 -0.22115159+03  0.46654622+04  0.25163560+03  0.25036228+03  0.51422454+04  0.                 0.81391343+08
0.10401846+03  0.57020226+08  0.15391628+03  0.
0.21472302+08  0.54655490+06  0.36065526+05  0.42603564+08  0.13518895+10  0.98411682+00 -0.10412432+08 -0.32268300+04
0.26823068+10  0.26613811+10  0.28871039+03  0.28560784+02  0.38860236+01  0.11063402+02  0.13103094+03  0.25876950+03
0.13491700+03  0.26323507+07  0.13161349+07  0.34781927-00  0.55263833-02  0.37903811+02

               790.0000    592504.00    34661.141     2.49811    36033.384     2.40292      0.     112.234         0.00
               317.7609  21510434.75          0.    251.05252     4367.716     0.           0.     -72.527         0.
                19.4418      2160.08          0.      1.87560        0.        0.           0.       3.310         0.
0.               0.                     0.26582511+05  0.12608691+08 -0.30018234-00 -0.36877561-00  0.87970646+00  0.10746855+03
0.18755964+01    0.                     0.10529669+05  0.48513447+07 -0.12373831-00  0.92950080+00  0.34742663-00  0.97107901+02
0.               0.                    -0.21435366+05  0.16738703+08 -0.94581661+00 -0.45620737-02 -0.32465345-00  0.16105251+03
0.22115159+03 -0.22115159+03  0.46740795+04  0.25163560+03  0.25036228+03  0.51468666+04  0.                 0.81391343+08
0.10358342+03  0.57021262+08  0.15405108+03  0.
0.21472315+08  0.54657750+06  0.36065612+05  0.42603818+08  0.13527856+10  0.98412738+00 -0.10405520+08 -0.32257588+04
0.26841068+10  0.26631811+10  0.28851765+03  0.28561097+02  0.48445825+01  0.11066605+02  0.13103253+03  0.25872707+03
0.13587715+03  0.26345799+07  0.13174395+07  0.43356119-00  0.69853875-02  0.38863391+02

               800.0000    608831.25    34646.863     2.99180    36015.472     2.87765      0.     112.562         0.
               318.6636  21527030.75          0.    232.29798     4367.716     0.           0.     -90.818         0.
                19.0906      2215.43          0.      1.87560        0.        0.           0.     129.112         0.
0.               0.                     0.26802472+05  0.12877619+08 -0.56710075+00 -0.36877561-00  0.73647992+00  0.12454829+03
0.18755964+01    0.                     0.10460097+05  0.49562967+07 -0.22887827-00  0.92950080+00  0.28919049-00  0.10323104+03
0.               0.                    -0.21670631+05  0.16523170+08 -0.79120292+00 -0.45620737-02 -0.61152928+00  0.14229798+03
0.22115159+03 -0.22115159+03  0.46811330+04  0.25163560+03  0.25036228+03  0.51539201+04  0.                 0.81391343+08
0.               0.97021725+08  0.15421151+03  0.
0.21472334+08  0.54659650+06  0.36065686+05  0.42604072+08  0.13536543+10  0.98413751+00 -0.10398880+08 -0.32247294+04
0.26858363+10  0.26649105+10  0.28833271+03  0.28561410+02  0.58017837+01  0.11069681+02  0.13103413+03  0.25868467+03
0.13683593+03  0.26375067+07  0.13186529+07  0.51919213+00  0.82423107-02  0.39821626+02

MS DRIVEN

MSM. OMEGA   0.55558760+00   0.              0.18755964+01   0.

MS DRIVEN
```

SH. CHEEA 0.12397766-04 0. 0. 0.

CASE 1 TRAJECTORY ID -6 NOP SECTION 7 PAGE 52

900.0000	533269.75	34355.919	7.86305	35737.067	7.55735	0.	115.432	0.
327.3545	21854045.00	0.	147.89788	4291.815	0.01202	0.	-170.638	0.
15.3876	2761.11	51.600	0.	2.760	0.	0.	178.869	0.
0.	0.12022884-01	0.24831274+05	0.15461852+08	-0.78827511+00	-0.36877561-00	-0.49255227-00	0.14202498+03	
0.	0.	0.96978240+04	0.59651836+07	-0.31013829-00	0.92950080+00	-0.19957571-00	0.10806756+03	
0.	0.	-0.23801218+05	0.14245947+08	0.53142586+00	-0.45620737-02	-0.84708320+00	0.57897883+02	
0.22115159+03	-0.22115159+03	0.48813150+04	0.27254541+03	0.27127615+03	0.53750159+04	0.19914598+02	0.81392745+08	
0.	0.97021725+08	0.15667894+03	0.18655652+02					
0.21472777+08	0.54703874+06	0.36055675+05	0.42582175+08	0.12688453+10	0.98307692+00	-0.11093552+08	-0.33307584+04	
0.25162178+10	0.24952921+10	0.30759016+03	0.28564424+02	0.15245566+02	0.10743657+02	0.13104705+03	0.25826183+03	
0.14625263+03	0.23535634+07	0.11566213+07	0.14166576+01	0.24116144-01	0.49273505+02			
1000.0000	1535353.25	33814.682	12.52533	35212.637	12.02048	0.	117.564	0.
335.3462	22458286.25	0.	147.89788	4057.505	0.00972	0.	-166.249	0.
11.5056	3282.74	39.425	0.	1.555	0.	0.	178.741	0.
0.	0.57164463-02	0.22638358+05	0.17836373+08	-0.78827511+00	-0.36877561-00	-0.49255227-00	0.14202498+03	
0.	0.	0.88485835+04	0.68929306+07	-0.31013829-00	0.92950080+00	-0.19957571-00	0.10806756+03	
0.	0.	-0.25478029+05	0.11778199+08	0.53142586+00	-0.45620737-02	-0.84708320+00	0.57897883+02	
0.22115159+03	-0.22115159+03	0.52539139+04	0.34532512+03	0.34405196+03	0.58603905+04	0.20071600+02	0.81397448+08	
0.	0.97021725+08	0.15945012+03	0.25345705+02					
0.21473850+08	0.54811150+06	0.36019411+05	0.42500808+08	0.10318380+10	0.97918874+00	-0.13642175+08	-0.36935316+04	
0.20422022+10	0.20212764+10	0.37874574+03	0.28567016+02	0.24300387+02	0.94466341+01	0.13104645+03	0.25784097+03	
0.15534684+03	0.17552914+07	0.87738509+06	0.25294593+01	0.53445269-01	0.58325433+02			
1100.0000	2385202.75	33117.633	16.91210	34535.376	16.19634	0.	119.020	0.
342.5931	23305685.25	0.	147.89788	4005.329	0.00513	0.	-162.159	0.
7.6550	3769.92	20.533	0.	0.493	0.	0.	178.605	0.
0.	0.51265039-02	0.20394158+05	0.19988024+08	-0.78827511+00	-0.36877561-00	-0.49255227-00	0.14202498+03	
0.	0.	0.79798712+04	0.77343870+07	-0.31013829-00	0.92950080+00	-0.19957571-00	0.10806756+03	
0.	0.	-0.26708559+05	0.91651401+07	0.53142586+00	-0.45620737-02	-0.84708320+00	0.57897883+02	
0.22115159+03	-0.22115159+03	0.58738399+04	0.37895070+03	0.37767760+03	0.64739421+04	0.23028992+02	0.81399557+08	
0.	0.97021725+08	0.16183867+03	0.41621620+02					
0.21478164+08	0.54942574+06	0.36001597+05	0.42464922+08	0.95009620+09	0.97739685+00	-0.14815856+08	-0.38451370+04	
0.18787172+10	0.18577914+10	0.41153016+03	0.28568804+02	0.32777920+02	0.87818442+01	0.13104811+03	0.25742175+03	
0.16382604+03	0.15508582+07	0.77508834+06	0.36029675+01	0.83736570-01	0.66803392+02			
1200.0000	3447252.00	32301.562	20.97533	33752.609	20.03394	0.	119.911	0.
349.1020	24372648.00	0.	147.89788	3958.327	0.00469	0.	-158.417	0.
3.9924	4216.77	18.567	0.	0.447	0.	0.	178.460	0.
0.	0.46905333-02	0.18156667+05	0.21916790+08	-0.78827511+00	-0.36877561-00	-0.49255227-00	0.14202498+03	
0.	0.	0.71284158+04	0.84855050+07	-0.31013829-00	0.92950080+00	-0.19957571-00	0.10806756+03	
0.	0.	-0.27519186+05	0.66504745+07	0.53142586+00	-0.45620737-02	-0.84708320+00	0.57897883+02	
0.22115159+03	-0.22115159+03	0.65704356+04	0.40935349+03	0.40808038+03	0.72009406+04	0.25038674+02	0.81401462+08	
0.	0.97021725+08	0.16381228+03	0.41567163+02					
0.21476753+08	0.55101550+06	0.35585595+05	0.42433462+08	0.88693656+09	0.97578548+00	-0.15870928+08	-0.39838333+04	
0.17523971+10	0.17314713+10	0.44103150+03	0.28569848+02	0.40587193+02	0.81361005+01	0.13104567+03	0.25700346+03	
0.17163286+03	0.13598496+07	0.69896385+06	0.46884184+01	0.11863142-00	0.74609787+02			
1300.0000	4684393.00	31416.996	24.70116	32901.276	23.51769	0.	120.357	0.
354.9321	25610122.50	0.	147.89788	3915.992	0.00424	0.	-155.044	0.
0.6056	4621.25	16.600	0.	0.400	0.	0.	178.307	0.
0.	0.42390273-02	0.16123866+05	0.23631541+08	-0.78827511+00	-0.36877561-00	-0.49255227-00	0.14202498+03	
0.	0.	0.63249896+04	0.91616783+07	-0.31013829-00	0.92950080+00	-0.19957571-00	0.10806756+03	
0.	0.	-0.27973393+05	0.36731918+07	0.53142586+00	-0.45620737-02	-0.84708320+00	0.57897883+02	
0.22115159+03	-0.22115159+03	0.73365164+04	0.43660326+03	0.43533016+03	0.79942711+04	0.26476152+02	0.81403171+08	
0.	0.97021725+08	0.16545416+03	0.41499998+02					

```
CASE  1                                    TRAJECTORY ID  -6 ACP                              SECTION  7                              PAGE  53
 0.21478530+08  0.95279200+06  0.35571962+05  0.42406445+08  0.83783800+09  0.97436434+00 -0.16800976+08 -0.40980993+04
 0.16541974+10  0.16332716+10  0.46706411+03  0.28570265+02  0.47693041+02  0.75193290+01  0.13104047+03  0.25658956+03
 0.17873353+03  0.12843163+07  0.64159691+06  0.57668532+01  0.15731974-00  0.81710357+02

            1400.0000   4961849.25    30394.568     28.09886    32024.930     26.65609        0.     120.470        0.
               0.1457  26987457.00        0.       147.89788     3878.591      0.00370        0.    -152.036        0.
              -2.4568     4984.20       14.360      0.              0.348      0.             0.     178.144        0.
 0.                0.37023794-02  0.14219806+05  0.25147206+08 -0.78827911+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.55854393+04  0.97566575+07 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.28145782+05  0.86519624+06  0.53142586+00 -0.45620737-02 -0.84708320+00  0.57897883+02
 0.22115159+03 -0.22115159+03  0.91337161+04  0.46046541+03  0.45919231+03  0.88153329+04  0.27515384+02  0.81404669+08
 0.                0.97021725+08  0.16684280+03  0.41264367+02
 0.21480423+08  0.55468524+06  0.35558517+05  0.42384105+08  0.80002642+09  0.97315036+00 -0.17595071+08 -0.41946480+04
 0.15785724+10  0.15576466+10  0.48931094+03  0.28570223+02  0.54108523+02  0.69481964+01  0.13103406+03  0.25616774+03
 0.18514255+03  0.11983630+07  0.59851597+06  0.68188433+01  0.19873657-00  0.88119423+02

            1500.0000   7545137.25    29594.473     31.19174    31152.363     29.47239        0.     120.341        0.
               4.8118  28474297.00        0.       147.89788     3846.389      0.00315        0.    -149.370        0.
              -5.1905     5308.28       12.120      0.              0.296      0.             0.     177.981        0.
 0.                0.31510068-02  0.12501801+05  0.26481712+08 -0.78827511+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.49198150+04  0.10281360+08 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.28106407+05 -0.15488997+07  0.53142586+00 -0.45620737-02 -0.84708320+00  0.57897883+02
 0.22115159+03 -0.22115159+03  0.89338169+04  0.48073513+03  0.47946203+03  0.96357035+04  0.28266591+02  0.81405946+08
 0.                0.97021725+08  0.16803739+03  0.40945944+02
 0.21482387+08  0.55664974+06  0.35548153+05  0.42366485+08  0.77134758+09  0.97214955+00 -0.18249240+08 -0.42719129+04
 0.15212135+10  0.15002878+10  0.50765532+03  0.28569884+02  0.59876724+02  0.64387093+01  0.13102777+03  0.25574983+03
 0.19090450+03  0.11345077+07  0.56645196+06  0.78303631+01  0.24175369-00  0.93881239+02

            1600.0000   9120694.00    28706.588     34.00973    30302.642     31.99690        0.     120.044        0.
               8.9956  30045154.50        0.       147.89788     3819.338      0.00267        0.    -147.019        0.
              -7.6105     5597.05       10.200      0.              0.246      0.             0.     177.811        0.
 0.                0.26706158-02  0.10565172+05  0.27653746+08 -0.78827511+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.43248470+04  0.10743007+08 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.27914567+05 -0.47505535+07  0.53142586+00 -0.45620737-02 -0.84708320+00  0.57857883+02
 0.22115159+03 -0.22115159+03  0.97177462+04  0.49756179+03  0.45628869+03  0.10436459+05  0.28797333+02  0.81407001+08
 0.                0.97021725+08  0.16937556+03  0.41463413+02
 0.21484374+08  0.55863574+06  0.35935165+05  0.42353134+08  0.74577855+09  0.97134571+00 -0.18774224+08 -0.43329232+04
 0.14780727+10  0.14571469+10  0.52239003+03  0.28569375+02  0.65056024+02  0.59978850+01  0.13102236+03  0.25533175+03
 0.15607837+03  0.10877550+07  0.54276536+06  0.87936323+01  0.28546535-00  0.99054892+02

            1700.0000  10755689.25    27852.916     36.58407    29487.081     34.26154        0.     119.636        0.
              12.7564  31675407.00        0.       147.89788     3797.136      0.00226        0.    -144.949        0.
              -9.7444     5854.31        8.600      0.              0.198      0.             0.     177.641        0.
 0.                0.72648646-02  0.96106870+04  0.28681340+08 -0.78827511+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.37572301+04  0.11148570+08 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.27617090+05 -0.75282802+07  0.53142586+00 -0.45620737-02 -0.84708320+00  0.57897883+02
 0.22115159+03 -0.22115159+03  0.10473636+05  0.51170939+03  0.51043629+03  0.11206497+05  0.29232618+02  0.81407888+08
 0.                0.97021725+08  0.17000119+03  0.43434343+02
 0.21486384+08  0.56064674+06  0.35931547+05  0.42343105+08  0.73318583+09  0.97069449+00 -0.19199096+08 -0.43816772+04
 0.14448852+10  0.14239555+10  0.53432550+03  0.28568792+02  0.69709797+02  0.56153402+01  0.13101795+03  0.25491355+03
 0.20072775+03  0.10513637+07  0.52471943+06  0.97086877+01  0.32955257-00  0.10370389+03

NS DRIVEN

NSH. OMEGA    0.79558779+00    0.              0.              0.

NS DRIVEN

NSH. OMEGA    0.20001221-00    0.              0.              0.



            1800.0000  12437461.25    27040.193     38.94518    28711.899     36.29755        0.     119.157        0.
              16.1465  33360338.00        0.       147.89788     3779.735      0.00185        0.    -143.129        0.
             -11.6218     6083.79        7.000      0.              0.150      0.             0.     177.470        0.


CASE  1                                    TRAJECTORY ID  -6 ACP                              SECTION  7                              PAGE  54
 0.                0.18519817-02  0.84104338+04  0.29581136+08 -0.78827511+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.33308485+04  0.11504488+08 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.27249645+05 -0.10272065+08  0.53142586+00 -0.45620737-02 -0.84708320+00  0.57897883+02
 0.22115159+03 -0.22115159+03  0.11194859+05  0.52333552+03  0.52206242+03  0.11939339+05  0.29622158+02  0.81408625+08
 0.                0.97021725+08  0.17082486+03  0.46666667+02
 0.21488366+08  0.56262875+06  0.35525184+05  0.42335917+08  0.72055577+09  0.97017823+00 -0.19535527+08 -0.44199019+04
 0.14158312+10  0.13987054+10  0.54378457+03  0.28568190+02  0.73899710+02  0.52925111+01  0.13101471+03  0.25449521+03
 0.20451442+03  0.10243230+07  0.51135881+06  0.10574378+02  0.37348701-00  0.10789011+03

            1853.8000  13356880.00    26620.897     40.13689    28312.432     37.30827        0.     118.881        0.
              17.8330  34279296.50        0.       147.89788     3771.663      0.00186        0.    -142.243        0.
             -12.5367     6196.96        7.000      0.              0.150      0.             0.     177.379        0.
 0.                0.18559449-02  0.78239091+04  0.30017659+08 -0.78827511+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.31028597+04  0.11677486+08 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.27032435+05 -0.11732294+08  0.53142586+00 -0.45620737-02 -0.84708320+00  0.57897883+02
 0.22115159+03 -0.22115155+03  0.11567348+05  0.52890392+03  0.52763082+03  0.12317403+05  0.29763003+02  0.81408948+08
 0.                0.97021725+08  0.17123368+03  0.46666667+02
 0.21485456+08  0.56371775+06  0.35922091+05  0.42332918+08  0.71485846+09  0.96953887+00 -0.19691344+08 -0.44374929+04
 0.14082275+10  0.13873017+10  0.54816867+03  0.28567871+02  0.75982239+02  0.51360324+01  0.13101338+03  0.25427011+03
 0.20655562+03  0.10121899+07  0.50457834+06  0.11021934+02  0.39714604-00  0.10997102+03

            1853.8000  13356880.00    26620.897     40.13689    28312.432     37.30827        0.     118.881        0.
              17.8330  34279296.50        0.       147.89788     3771.663      0.00186        0.    -142.243        0.
             -12.5367     6196.96        7.000      0.              0.150      0.             0.     177.379        0.
 0.                0.18559449-02  0.78239091+04  0.30017659+08 -0.78827511+00 -0.36877561-00 -0.49255227-00  0.14202498+03
 0.                0.             0.31028597+04  0.11677486+08 -0.31013829-00  0.92950080+00 -0.19957571-00  0.10806756+03
 0.                0.            -0.27032435+05 -0.11732294+08  0.53142586+00 -0.45620737-02 -0.84708329+00  0.57897883+02
 0.22115159+03 -0.22115159+03  0.11567348+05  0.52890392+03  0.52763082+03  0.12317403+05  0.29763003+02  0.81408948+08
 0.                0.97021725+08  0.17123368+03  0.46666667+02
 0.21485456+08  0.56371775+06  0.35922091+05  0.42332918+08  0.71485846+09  0.96993887+00 -0.19691344+08 -0.44374929+04
 0.14082275+10  0.13873017+10  0.54816867+03  0.28567871+02  0.75982239+02  0.51360324+01  0.13101338+03  0.25427011+03
 0.20695562+03  0.10121899+07  0.50457834+06  0.11021934+02  0.39714604-00  0.10597102+03
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APPENDIX C

DESCRIPTION OF COORDINATE SYSTEMS AND TRAJECTORY PARAMETERS APPLICABLE TO APPENDIXES A AND B

C.1 DESCRIPTION OF COORDINATE SYSTEMS AND MATRICES

C.1.1 Space-Fixed Coordinate System

U, V, W — A space-fixed, right-handed Cartesian coordinate system with the W axis aligned with the plumb line at the launch pad and the U axis pointing in the launch direction. These axes are space fixed at guidance to inertial. The origin of the coordinate system is earth-centered.

C.1.2 Vehicle Axes Coordinate System

XI, ETA, ZETA — A right-hand Cartesian coordinate system denoting the vehicle's fixed axes. The longitudinal (XI) axis is positive toward the front of the vehicle. The yaw (ZETA) axis is positive toward the No. 1 booster engine, or pod No. 1, and points up in flight. The pitch (ETA) axis is positive to the left when viewing the vehicle from its base.

C.1.3 Transformational Operator

L11 L12 L13	Cos (XI, U) Cos (ETA, U) Cos (ZETA, U)
L21 L22 L23	Cos (XI, V) Cos (ETA, V) Cos (ZETA, V)
L31 L32 L33	Cos (XI, W) Cos (ETA, W) Cos (ZETA, W)

A transformational operator that defines the relationship between the XI, ETA, ZETA, or vehicle axes and the inertial reference system.

C.2 OUTPUT OPTION 2

Parameter	Definition	Units
TIME	Time from liftoff (Appendix B) or time from guidance to inertial (Appendix A)	sec
ALTITUDE	Geocentric altitude above reference ellipsoid	ft
VELOCITY RA	Relative velocity referenced to a coordinate system fixed with respect to the air	ft/sec
FLT PATH R	Angle between the relative velocity vector and the local horizontal plane[(1)], measured positive above and negative below the horizontal plane	deg
VELOCITY I	Inertial velocity relative to inertial coordinate system, U, V, W	ft/sec
FLT PATH I	Angle between the inertial velocity vector and the local horizontal plane[(1)], measured positive above and negative below the horizontal plane	deg
AXL FORCE	Aerodynamic force along the vehicle's longitudinal axis	lb
VEL R AZ	Relative velocity azimuth angle, defined as the angle measured east of north to the projection of the relative velocity vector on the local horizontal plane[(1)]	deg
DYNM PRS	Dynamic pressure	lb/ft^2
LONGITUDE	Longitude, positive east of Greenwich meridian	deg
R MAGNITUDE	Magnitude of geocentric position vector	ft
THRST FIXED	Nongimbaled thrust	lb
PITCH ATT	Angle between the vehicle longitudinal axis and a space-fixed plane, U-V plane, measured positive above and negative below the reference plane	deg

(1) Local horizontal plane is defined as a plane normal to the geocentric position vector

Parameter	Definition	Units
WEIGHT	Weight of the vehicle	lb
AXL LD FCTR	Axial load factor, the longitudinal component of thrust less drag divided by weight	N.D.
NORM FORCE	Aerodynamic force in the pitch plane acting normal to the vehicle longitudinal axis and applied at the center of pressure	lb
ALPHA	Angle of attack in the pitch plane (XI-ZETA plane)	deg
ATM PRS	Atmospheric pressure	lb/ft^2
GEOCENT LAT	Geocentric latitude, positive north of equator and negative south of equator	deg
GRND RANGE	Surface range from launch pad to the sub vehicle point	n. mi.
THRST CONTL	Gimbaled thrust	lb
PITCH RATE	Time rate of change of PITCH ATT (see PITCH ATT)	deg/sec
WEIGHT DOT	Total flow rate	lb/sec
MACH NUMBER	Mach number	N.D.
SIDE FORCE	Aerodynamic force in the yaw plane acting normal to the vehicle longitudinal axis and applied at the center of pressure	lb
BETA	Angle of attack in the yaw plane (XI-ETA plane)	deg
REY NUMB	Reynolds number	ft^{-1}

C.3 OUTPUT OPTION 9

Parameter	Definition	Units
OMG XI	The roll rate about the XI axis, positive roll rate results in right-hand screw rotation	deg/sec
OMG ETA	The pitch rate about the ETA axis, positive pitch rate results in right-hand screw rotation	deg/sec
OMG ZETA	The yaw rate about the ZETA axis, positive yaw rate results in right-hand screw rotation	deg/sec
AC XI AC ETA AC ZETA	Axial components of acceleration due to thrust and aerodynamic forces $\left(\frac{\text{thrust - aero force}}{\text{mass}}\right)$ along the vehicle axes.	ft/sec^2
RMU, RMV, RMW	The components of a position vector originating at the earth center, referenced to the space-fixed coordinate system	ft
VMU, VMV, VMW	The time rate of change of RMU, RMV, RMW	ft/sec
ACOL11	Angle whose cosine is L11 (XI, U)	deg
ACOL12	Angle whose cosine is L12 (XI, V)	deg
ACOL13	Angle whose cosine is L13 (XI, W)	deg

C.4 OUTPUT OPTION 12

Parameter	Definition	Units
G LOSS	Gravity loss, time integral from liftoff of gravity vector component along the inertial velocity vector	ft/sec
D LOSS	Drag loss, time integral from liftoff of all aerodynamic force accelerations along the inertial velocity vector	ft/sec
M LOSS	Misalignment loss, time integral from liftoff of magnitude of thrust acceleration less thrust acceleration vector component along the inertial velocity vector	ft/sec
T LOSS	Total losses, sum of gravity loss, drag loss, and misalignment loss	ft/sec
SP IMP	Average specific impulse in a section of trajectory simulation (not of a stage if it is simulated by several contiguous sections), quotient of time integral from beginning of section of total thrust and total flow rate	sec
TOT IM	Total impulse, time integral from liftoff of total thrust	lb-sec
H FLUX	Product of dynamic pressure and velocity relative to the air	$ft\text{-}lb/ft^2\text{-}sec$
H PARA	Heating parameter, time integral from liftoff of the product of dynamic pressure and velocity relative to the air	$ft\text{-}lb/ft^2$
ML ALF	Time integral from liftoff of the magnitude of the thrust acceleration component in the instantaneous trajectory plane ($\bar{R} \times \bar{V}$) less thrust acceleration vector component along the inertial velocity vector	ft/sec

Parameter	Definition	Units
ML BET	Time integral from liftoff of the magnitude of the thrust acceleration less thrust acceleration vector component in the instantaneous trajectory plane ($\bar{R} \times \bar{V}$)	ft/sec
DB LOSS	Defined by the equation DB LOSS = 23.14 + 20 $\log_{10}$ (Slant Range), where slant range is the range to the vehicle from a tracker with a 5-degree elevation angle to the vehicle	db
IISP	Instantaneous specific impulse, quotient of total thrust and total flow rate	sec

C.5 OUTPUT OPTION 13

Parameter	Definition	Units
PER RADIUS	Minimum distance in a conic from the primary focus	ft
PERIGEE ALT	Minimum altitude in a conic above a reference sphere of equatorial radius of the earth	ft
PERIGEE VEL	Velocity at the minimum distance from the primary focus	ft/sec
APO RADIUS	Maximum distance in a conic from the primary focus	ft
APOGEE ALT	Maximum altitude in a conic above a reference sphere of equatorial radius of the earth	ft
APOGEE VEL	Velocity at the maximum distance from the primary focus	ft/sec
SEMILAT REC	Perpendicular distance from a point on the conic to the major axis at the primary focus	ft
SEMIMAJ AXIS	Semimajor axis of a conic	ft
ECCENTRICITY	Constant ratio in a conic of the distance from a point on the conic to the focus, to the distance from the point to the directrix	N.D.
PERIOD	Period of revolution	sec
SEMIVERTEX	Semivertex angle between asymptotes of hyperbola	deg
ORBITAL INCL	Dihedral angle between orbit plane and equatorial plane	deg
PERIAP ARG	Angle measured in the plane of orbit from the ascending node to periapsis	deg
LON-ASC-NOD	Angular distance measured in the equatorial plane from the earth-fixed launch longitude to the ascending node	deg

Parameter	Definition	Units
POSITION ARG	Angle at the primary focus between the ascending node and the position vector measured in the direction of motion	deg
VIS-VIVA EN	Twice the total energy per unit mass equal to the square of the hyperbolic excess velocity	$(ft/sec)^2$
V-INFINITY	Hyperbolic excess velocity	ft/sec
TRUE ANOMALY	Angle at the primary focus between periapsis and the position vector measured in the direction of motion	deg
TIMEAP	Conic coast time to apogee	sec
ECC AN	Eccentric anomaly	deg
MEAN AN	Mean anomaly	deg
RNGANG	Range angle, angle between the launch vector and the vehicle position vector	deg

C.6 DETAILED PROPULSION (DEPRO) OUTPUT PARAMETERS

Parameter	Definitions	Units
NPSH	Net positive suction head at sustainer engine pump inlet	ft
MIX	Oxidizer to fuel burning mixture ratio	N. D.
W.B.	Total booster engine flow rate	lb/sec
W.S.	Total sustainer engine flow rate	lb/sec
WF	Fuel remaining above sustainer engine pump inlet	lb
WO	Oxidizer remaining above sustainer engine pump inlet	lb
VALVE ANGLE	Propellant utilization control valve setting	deg
ACS	Axial load factor, the longitudinal component of thrust less drag divided by weight	N. D.
PIPFB	Booster fuel pump inlet pressure	lb/in^2 ambien
PIPOB	Booster oxidizer pump inlet pressure	lb/in^2 ambient
PIPFS	Sustainer fuel pump inlet pressure	lb/in^2 ambient
PIPOS	Sustainer oxidizer pump inlet pressure	lb/in^2 ambient
FUEL DENS	Fuel density	lb/ft^3
OXID DENS	Oxidizer density	lb/ft^3
FUEL LEVEL	Fuel level from reference line	in
OXID LEVEL	Oxidizer level from reference line	in
W.FB	Booster engine fuel flow rate	lb/sec
W.OB	Booster engine oxidizer flow rate	lb/sec
W.FS	Sustainer engine fuel flow rate	lb/sec
W.OS	Sustainer engine oxidizer flow rate	lb/sec

Parameter	Definitions	Units
W. FV	Vernier engine fuel flow rate	lb/sec
W. OV	Vernier engine oxidizer flow rate	lb/sec
W. F	Total fuel flow rate	lb/sec
W. O	Total oxidizer flow rate	lb/sec
TH INC	Sustainer thrust increment as a function of valve angle change	lb
FUEL INC	Sustainer fuel flow increment as a function of valve angle change	lb
LO_2 INC	Sustainer LO_2 flow increment as a function of valve angle change	lb
CAPF	Capacitance output from fuel manometer in detailed propellant utilization simulation	$\mu\mu$f
CAPO	Capacitance output from oxidizer manometer in detailed propellant utilization simulation	$\mu\mu$f
CAP RATIO	CAPF divided by CAPO	N. D.
IGFP	Fuel pressure at fuel manometer port at one-g acceleration	psi
MIXRS	Sustainer engine mixture ratio	N. D.
PG(O)	Liquid oxygen tank gas pressure	psig
PG(F)	Fuel tank gas pressure	psig
PVPO	Liquid oxygen vapor pressure	psia
PSUBA	Ambient pressure as a function of altitude	psia
B MIX R	Booster engine mixture ratio after calculation of flow rates from influence coefficients	N. D.
B TH INC	Change in thrust from C STAR table	lb
B FU INC	Change in fuel flow rates from C STAR table	lb
B OX INC	Change in LO_2 flow rates from C STAR table	lb

Parameter	Definition	Units
WBOI	Weight of booster engine lube oil	lb
WSOI	Weight of sustainer engine lube oil	lb
WBHE	Weight of booster helium(1)	lb
WSHE	Weight of sustainer helium(2)	lb
EDO	Error demodulator output(2)	vdc

(1) For the simulation, Appendix A, WBHE represents gaseous oxygen

(2) Not simulated

GENERAL DYNAMICS

Convair Division