

#453

IMP H + J
CDAW CATALOG
72-073A-02C-SPHE-0010Z
73-078A-02C-SPHE-0009Z

72-073A-04B-SPMS 0027Z
72-073A-04C-SPMS-00539
73-078A-04A SPMS-0027Z
73-078A-04B SPMS-00539
77-102A-03A SPMS-00118
77-102B-03A SPMS-00450

ISEE 1 & 2

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

IMP-H

SOLAR PLASMA-HIGH RESOLUTION

72-073A-02C

SPHE-00102

This data set has been restored. There were originally two 7-track, 800 BPI tapes written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tapes were created on a 360 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005069	DS005069	D035132	1	07/16/77 - 09/08/77
		D039138	2	07/28/77 - 07/29/77

IMP-J

SOLAR PLASMA-HIGH RESOLUTION

73-078A-02C

SPHE-00092

This data set has been restored. There were originally two 7-track, 800 BPI tapes written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tapes were created on a 360 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005068	DS005068	D035133	1	07/03/77 - 09/04/77
		D039139	2	07/28/77 - 07/29/77

REQ. AGENT
VPL

RAND NO.
RD3030

ACQ. AGENT
DMS

IMP H + J

SOLAR PLASMA-HIGH RESOLUTION

72-073A-02C
73-078A-02C ✓

This data set catalog consists of 2 IMP H and 2 IMP J data tapes.
The 'D' tapes are 800 BPI, 7 track, BCD and the 'C' tape is 9 track,
1600 BPI, ASCII all the tapes contain 1 file each.

The Time span is as follows:

IMP H

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-35132 ✓	C-20713	7/16/77 - 9/08/77
D-39138 ✓	C-20976	7/28/77 - 7/29/77

IMP J

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-35133	C-20714	7/03/77 - 9/04/77
D-39139	C-20977	7/28/77 - 7/29/77

INSTRUCTIONS FOR READING AURORAL

ZONE DATA FROM MAGNETIC TAPE

This tape(s) AE77 contain the data for 12 observatories.

For the date(s) 07/28/77 - 07/29/77 starting at 2100 U.T..

Observatories used are: LEH, GWX, COH, T1H, D1H, VAH, FCX, YKX
OCH, CWH, ABH, KZX

The data ^{are} organized in the following manner. The first day ^(24 hours) is listed first, then the second, and so on. Each block of one days' data contains data for each individual observatory, ^{then for the days} AE, AO, AU, and AL; respectively. Each block of data for an observatory consists of first a label ^{line} then 120 lines of numbers. The format of the label ^{is} is:

<u>COLUMN</u>	<u>INFORMATION</u>	<u>EXAMPLE</u>
1-3	Code for obs. and component.	LEH
4-11	Date, <u>Month/Day/YEAR</u>	02/31/79
12-13	Blank.	
14-17	Time in U.T. ^{for first data value}	2100
18-19	Blank.	
20-25	Scale factor in xxx.xx format.	011.26
26-27	Blank.	
28-30	Quiet level reference, ^{from digitizer}	750
31-32	Blank.	
33-36	Number of points (usually 1440) ^{in block}	1440

Following the label ^{are} 120 lines of integers with twelve ^{values} ~~integers~~ to a line. The format for the ^{numerical data} ~~label~~ is:

<u>COLUMN</u>	<u>INFORMATION</u>	<u>EXAMPLE</u>
1-8	Blank.	
9-14	First integer-right justified.	-28
15-20	Second integer -right justified.	280
21-26	Third integer-right justified.	-3875
ECT.	⋮	
75-80	⋮	

Immediately following the ^{12th integer} last line of integers for the last observatory on

a given day, the AE, AO, AU, and AL . data will appear. Except for the lable ^{AU} these data blocks are in the same format as the individual observatories. The format of the lable for AE, AO, AU, and AL is:

<u>COLUMN</u>	<u>INFORMATION</u>	<u>EXAMPLE</u>
1-2	(AE, AO, AU, AL)	AE
3-6	Blank.	
7-8	Number of observatories.	12
9-12	Blank.	
13-20	Date. <i>mm/DD/YY</i>	01/30/79
21-26	Blank.	
27-30	Starting time (UT)	2100

The last line of integers from AL is the end of data for this day. The next day may either follow this day on the same tape or appear on another tape. See comments below to determine which days are on each tape. For more information call:

Jim Phillips
DSD-Boulder, Colorado
P.N. (303) 499-1000 ext. 6501
FTS No. 323-6501

Comments:

1. Tape: AE77. File 1: 28th day
File 2: 29th day
 2. EO channel record
 3. No blank lines in block
- Tape information:

DENSITY: 1600 BPI
TRACK: 9
CODE: EBCDIC

CONTIN

DD UNIT = TAPE 7, LABEL = (, BLP), DCB = (DEN = 2, TRICH = ET, RECFM = FB, LRECL = 430, BLKSIZE = 4300)

DD(5,00)

NEW BOOKING FOR 1000
100 records per block
(8803 words)
2 tracks

ITEM	TYPE	DATA (I,100)	VARIABLE	UNITS
1 43	A4		S/C Name	
2 42	I4	YY	Year (i.e. 1974)	
3 41	I4	CD	Day (Jan 1 = day 1)	
4 40	I4	SEC HH	Hour (0 to 23)	
5 39	F10.3	1	VP Speed	Average Standard Deviation Member of Values Averaged
6 38		2		
7 37		3		
8 36	F10.3	4	DP Density	"
9 35		5		
10 34		6		
11 33	F10.3	7	VAP Thermal Speed	"
12 32		8		
13 31		9		
14 30	F10.3	10	Flux	"
15 29		11		
16 28		12		
17 27	F10.3	13	TR Thermal Speed/Bulk Speed	"
18 26		14		
19 25		15		
20 24	F10.3	16	E-W Angle	"
21 23		17		
22 22		18		
23 21	F10.3	19	N-S Angle	"
24 20		20		
25 19		21		
26 18	F10.3	22	VT	"
27 17		23		
28 16		24		
29 15	F10.3	25	VN	"
30 14		26		
31 13		27		
32 12		28	Flux in 4 Sectors	"
33 11		29		
34 10		30		
35 9	E12.3	31	S/C Longitude	"
36 8		32		
37 7		33		
38 6		34	S/C Longitude	"
39 5		35		
40 4		36		
41 3		37	S/C Longitude	"
42 2		38		

THIS TAPE CONTAINS INTERPLANE TARY AND MAGNETOSPHERIC DATA

#79 DATA(42)

#76 DATA(79)

#82 DATA(45)

#22 DATA(21)

#25 (DATA 26)

positive from West

#28 (DATA 31)

positive from South

(-45, 45) S/C Longitude #/cm² sec
 (45, 135) S/C Longitude #/cm² sec
 (135, -135) S/C Longitude #/cm² sec
 (-135, -45) S/C Longitude #/cm² sec

Sullivan

Tape has same format as 73-078A-02B and 72-073A-02B, except ~~it~~ and containing hours now contains seconds.

Add following items to COAEE 2.1 data base.

- | | | |
|----|--|------------------|
| 5 | Average Speed of Solar Wind | (Km/sec) |
| 6 | Standard Deviation of Solar Wind Speed | (Km/sec) |
| 8 | Density of Solar Wind | cm^{-3} |
| 9 | Standard Deviation of Solar Wind Density | cm^{-3} |
| 11 | Thermal Speed of Solar Wind | (Km/sec) |
| 12 | Standard Deviation of Solar Wind Thermal Speed | (Km/sec) |
| 20 | East-West Angle (+ from West) | (deg) |
| 23 | North-South Angle (+ from South) | (deg) |

Note: IMP-8 (J) has good coverage for 1st 6 hours of July 29, 1978

IMP-7 (H) has some good coverage outside this range.

Note ***: Do not put IMP-7 on data base at this time! Sullivan is not ready to release data yet.

FATS070 CONTROL CARD TABLE SIZE IS 4096 BYTES

FATAR CONTROL CARDS

- 1-- ANALYZE BLP,PRTLEN=1000
- 2-- PRINT LF=1,B=1-5,CHAR
- 3-- PRINT LF=1,B=380-387,CHAR
- 4-- PRINT LF=2,B=ALL,CHAR

Dr/15005069

FATS071 TAPE BUFFER SIZE IS 65535 BYTES

FATS040 TAPEIN IS NOT LABELED - LABELS=NO ASSUMED

*7/16/77-9/8/77
7/28/77-7/29/77*

CHARACTERISTICS OF THE TAPE TO BE ANALYZED

UNIT SERIAL DEN TRTCH
5A9 NC1188 38000

FATAR DETAIL REPORT

BLOCK LNGLTH/ MESSAGE/ 1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL BLOCK TYPE (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

***** START FILE 1

FATS038 DATA FILE IN ISCII/ASCII - TRANSLATED TO EBCDIC

1	4300	PRINT REQUESTED	IMP71977 197	0	568.412	0.0	1.000	7.066	0.0	1.000
	+00080		39.743	0.0	1.000	4002.361	0.0	1.000	0.070	0.0
	+00160		1.000	-4.783	0.0	1.000	0.0	0.0	1.000	47.400
	+00240		0.0	1.000	0.0	0.0	1.000	0.926E 07	0.0	0.100E
	+00320		01	0.899E 07	0.0	0.100E 01	0.926E 07	0.0	0.100E 01	-0.1
	+00400		00E 03	0.0	0.100E	01IMP71977 197 25	549.044	7.224	2.000	2.000
	+00480		5.966	1.118	2.000	46.737	11.848	2.000	3264.594	564.964
	+00560		2.000	0.085	0.023	2.000	-3.582	1.302	2.000	0.0
	+00640		0.0	2.000	34.213	11.997	2.000	0.0	0.0	2.000
	+00720		.926E 07	0.523E 08	0.200E 01	0.895E 07	0.644E 05	0.200E 01	0.926E 07	0
	+00800		0.819E 04	0.200E 01	-0.100E 03	0.0	0.200E	01IMP71977 197 30	5	5
	+00880		40.616	13.909	12.000	7.289	0.595	12.000	49.409	5.389
	+00960		12.000	3923.312	319.240	12.000				
2	4300	PRINT REQUESTED	IMP71977 197 70	492.883	2.864	6.000	6.637	0.467	6.000	
	+00080		47.018	5.214	6.000	3265.349	234.579	6.000	0.095	0.011
	+00160		6.000	-1.272	3.643	6.000	0.0	6.000	11.063	
	+00240		31.260	6.000	0.0	0.0	6.000	0.955E 07	0.406E 08	0.600E
	+00320		01	0.903E 07	0.128E 06	0.600E 01	0.955E 07	0.175E 06	0.600E 01	-0.1
	+00400		00E 03	0.0	0.600E	01IMP71977 197 75	511.944	5.408	5.000	
	+00480		6.415	1.531	5.000	35.646	2.604	5.000	3276.157	810.994
	+00560		5.000	0.070	0.004	5.000	-5.110	1.363	5.000	0.0
	+00640		0.0	5.000	45.568	12.109	5.000	0.0	0.0	5.000
	+00720		.930E 07	0.427E 08	0.500E 01	0.902E 07	0.948E 05	0.500E 01	0.930E 07	
	+00800		0.966E 05	0.500E 01	-0.100E 03	0.0	0.500E	01IMP71977 197 175	5	5
	+00880		69.659	0.0	1.000	5.169	0.0	1.000	41.496	0.0
	+00960		1.000	2922.671	0.0	1.000				
3	4300	PRINT REQUESTED	IMP71977 197 215	497.554	22.730	12.000	3.832	2.141	12.000	
	+00080		39.835	7.057	12.000	1894.668	1042.231	12.000	0.080	0.014
	+00160		12.000	0.309	2.857	12.000	0.0	0.0	12.000	-2.919

FATAR DETAIL REPORT

BLOCK LNTH/ MESSAGE/ NUMBER DISPL BLOCK TYPE 1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80 (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

+00720	.976E 07	0.125E 09	0.210E 02	0.941E 07	0.982E 05	0.210E 02	0.976E 07	
+00800	0.125E 06	0.210E 02	-0.100E 03	0.0	0.210E 02	IMP71977	251 505	3
+00880	69.612	0.480	14.000	38.397	1.530	14.000	19.471	0.140
+00960	14.000	14167.109	567.406	14.000				
385 4300	PRINT REQUESTED							
+00080	IMP71977	251 545	365.806	1.204	21.000	29.423	2.694	21.000
+00160	18.750	0.249	21.000	10761.609	1005.164	21.000	0.051	0.001
+00240	21.000	0.458	1.295	21.000	0.0	0.0	21.000	-2.916
+00320	8.284	21.000	0.0	0.0	21.000	0.984E 07	0.104E 09	0.210E
+00400	02	0.941E 07	0.102E 06	0.210E 02	0.984E 07	0.125E 06	0.210E 02	-0.1
+00480	00E 03	0.0	0.210E 02	IMP71977	251 550	366.055	1.025	21.000
+00560	30.231	2.310	21.000	18.821	0.199	21.000	11064.293	858.374
+00640	21.000	0.051	0.000	21.000	0.490	1.219	21.000	0.0
+00720	0.0	21.000	-3.117	7.806	21.000	0.0	0.0	21.000
+00800	.985E 07	0.106E 09	0.210E 02	0.941E 07	0.968E 05	0.210E 02	0.985E 07	0
+00880	0.173E 06	0.210E 02	-0.100E 03	0.0	0.210E 02	IMP71977	251 555	3
+00960	65.303	0.877	14.000	31.295	1.688	14.000	18.566	0.195
	14.000	11426.688	589.299	14.000				
386 4300	PRINT REQUESTED							
+00080	IMP71977	251 595	366.580	0.975	21.000	15.569	1.303	21.000
+00160	20.212	0.257	21.000	5704.793	480.146	21.000	0.055	0.001
+00240	21.000	-0.213	1.779	21.000	0.0	0.0	21.000	1.371
+00320	11.387	21.000	0.0	0.0	21.000	0.981E 07	0.595E 08	0.210E
+00400	02	0.947E 07	0.145E 06	0.210E 02	0.981E 07	0.150E 06	0.210E 02	-0.1
+00480	00E 03	0.0	0.210E 02	IMP71977	251 600	366.572	1.318	20.000
+00560	16.106	1.160	20.000	20.069	0.314	20.000	5898.230	429.607
+00640	20.000	0.055	0.001	20.000	-1.593	2.126	20.000	0.0
+00720	0.0	20.000	10.209	13.572	20.000	0.0	0.0	20.000
+00800	.979E 07	0.619E 08	0.200E 02	0.938E 07	0.775E 05	0.200E 02	0.979E 07	0
+00880	0.159E 06	0.200E 02	-0.100E 03	0.0	0.200E 02	IMP71977	251 605	3
+00960	65.841	1.237	18.000	15.017	1.589	18.000	20.089	0.383
	18.000	5489.598	581.620	18.000				
387 4300	PRINT REQUESTED							
+00080	IMP71977	251 645	364.572	0.949	21.000	13.104	0.558	21.000
+00160	19.794	0.096	21.000	4775.742	195.272	21.000	0.054	0.000
+00240	21.000	1.119	0.726	21.000	0.0	0.0	21.000	-7.112
+00320	4.583	21.000	0.0	0.0	21.000	0.982E 07	0.523E 08	0.210E
+00400	02	0.942E 07	0.117E 06	0.210E 02	0.982E 07	0.167E 06	0.210E 02	-0.1
+00480	00E 03	0.0	0.210E 02	IMP71977	251 650	363.901	0.975	21.000
+00560	12.376	0.655	21.000	19.589	0.190	21.000	4502.410	234.087
+00640	21.000	0.054	0.000	21.000	1.105	0.703	21.000	0.0
+00720	0.0	21.000	-7.013	4.432	21.000	0.0	0.0	21.000
+00800	.980E 07	0.505E 08	0.210E 02	0.939E 07	0.648E 05	0.210E 02	0.980E 07	0
+00880	0.109E 06	0.210E 02	-0.100E 03	0.0	0.210E 02	IMP71977	251 655	3
+00960	63.424	1.000	19.000	11.963	0.731	19.000	19.445	0.240
	19.000	4346.520	266.427	19.000				

***** END OF FILE 1 -- FILE CONTAINED 387 BLOCKS

***** START FILE 2

FATS038 DATA FILE IN ISCI/ASCII - TRANSLATED TO EBCDIC

FATAR DETAIL REPORT

BLOCK LNTH/ MESSAGE/
NUMBER DISPL BLOCK TYPE

1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
(COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

1	4300	PRINT REQUESTED	IMP71977 209 0	305.010	0.966	16.000	17.045	1034.502	16.000***
+00080			*****	16.000-45715.176	*****	16.000	*****	*****	*****
+00160			16.000	0.045*****	16.000*****	16.000*****	16.000*****	16.000*****	16.000*****
+00240			*****	16.000*****	16.000	0.929E 07	0.674E 08	0.160E	
+00320			02	-0.381E 10	0.394E 10	0.160E 02	0.929E 07	0.700E 20	0.160E 02 -0.1
+00400			00E 03	0.331E 02	0.160E 02	02IMP71977 209 5	304.839	0.926	15.000
+00480			16.685	0.387	15.000	19.698	1.029	15.000	5086.109 118.428
+00560			15.000	0.065	0.003	15.000	0.042	0.013	15.000 0.0
+00640			0.0	15.000	-0.224	0.072	15.000	0.0	0.0 15.000 0
+00720			.979E 07	0.643E 08	0.150E 02	0.943E 07	0.100E 06	0.150E 02	0.979E 07
+00800				0.166E 06	0.150E 02	-0.100E 03	0.0	0.150E	02IMP71977 209 10 3
+00880			05.051	2.082	16.000	22.417	23.865	16.000	19.752 1.899
+00960			16.000	6797.402	7087.219	16.000			

2	4300	PRINT REQUESTED	IMP71977 209 50	309.256	2.944	13.000	30.367	27.348	13.000
+00080			19.035	1.672	13.000	9291.555	8131.367	13.000	0.062 0.005
+00160			13.000	-4.648	1.633	13.000	0.0	13.000	25.098
+00240			8.880	13.000	0.0	0.0	13.000	0.981E 07	0.135E 09 0.130E
+00320			02	0.937E 07	0.161E 06	0.130E 02	0.981E 07	0.174E 06	0.130E 02 -0.1
+00400			00E 03	0.0	0.130E	02IMP71977 209 55	309.474	1.859	12.000
+00480			20.357	2.874	12.000	19.660	0.489	12.000	6281.789 904.364
+00560			12.000	0.064	0.002	12.000	-4.427	1.432	12.000 0.0
+00640			0.0	12.000	23.924	7.740	12.000	0.0	0.0 12.000 0
+00720			.910E 07	0.811E 08	0.120E 02	0.908E 07	0.125E 07	0.120E 02	0.910E 07
+00800				0.212E 07	0.120E 02	-0.100E 03	0.0	0.120E	02IMP71977 209 60 3
+00880			37.810	0.0	1.000	25.247	0.0	1.000	28.288 0.0
+00960			1.000	8528.102	0.0	1.000			

3	4300	PRINT REQUESTED	IMP71977 209 180	308.802	0.0	1.000	10.184	0.0	1.000
+00080			19.923	0.0	1.000	3144.781	0.0	1.000	0.065 0.0
+00160			1.000	0.114	0.0	1.000	0.0	1.000	-0.614
+00240			0.0	1.000	0.0	0.0	1.000	0.969E 07	0.0 0.100E
+00320			01	0.943E 07	0.0	0.100E 01	0.969E 07	0.0	0.100E 01 -0.1
+00400			00E 03	0.0	0.100E	01IMP71977 209 185	307.597	0.0	1.000
+00480			9.519	0.0	1.000	20.655	0.0	1.000	2928.096 0.0
+00560			1.000	0.067	0.0	1.000	0.092	0.0	1.000 0.0
+00640			0.0	1.000	-0.496	0.0	1.000	0.0	0.0 1.000 0
+00720			.991E 07	0.0	0.100E 01	0.942E 07	0.0	0.0	0.100E 01 0.991E 07
+00800			0.0	0.0	0.100E 01	-0.100E 03	0.0	0.100E	01IMP71977 209 195 3
+00880			07.653	0.0	1.000	10.220	0.0	1.000	20.472 0.0
+00960			1.000	3144.098	0.0	1.000			

4	4300	PRINT REQUESTED	IMP71977 209 360	304.006	0.0	1.000	10.333	0.0	1.000
+00080			19.516	0.0	1.000	3141.448	0.0	1.000	0.064 0.0
+00160			1.000	0.027	0.0	1.000	0.0	1.000	-0.142
+00240			0.0	1.000	0.0	0.0	1.000	0.969E 07	0.0 0.100E
+00320			01	0.931E 07	0.0	0.100E 01	0.969E 07	0.0	0.100E 01 -0.1
+00400			00E 03	0.0	0.100E	01IMP71977 209 365	296.895	0.289	4.000
+00480			97.000	2.439	4.000	13.184	0.027	4.000	28798.984 727.780
+00560			4.000	0.044	0.000	4.000	-0.108	0.001	4.000 0.0
+00640			0.0	4.000	0.558	0.007	4.000	0.0	0.0 4.000 0

FATAR DETAIL REPORT

BLOCK LNTH/ MESSAGE/ 1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
 NUMBER DISPL BLOCK TYPE (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

+00400	00E 03	0.0	0.130E 02	IMP71977	2101335	414.037	10.124	21.000	
+00480	8.936	6.000	21.000	32.515	20.946	21.000	3728.402	2746.264	
+00560	21.000	0.078	0.045	21.000	5.718	1.358	21.000	0.0	
+00640	0.0	21.000	-41.205	9.453	21.000	0.0	0.0	21.000	0
+00720	.903E 07	0.500E 08	0.210E 02	0.874E 07	0.165E 07	0.210E 02	0.903E 07		
+00800	0.225E 07	0.210E 02	-0.100E 03	0.0	0.210E 02	IMP71977	2101340	4	
+00880	13.440	6.269	21.000	6.301	1.665	21.000	28.621	1.872	
+00960	21.000	2596.059	689.122	21.000					

42	4300	PRINT REQUESTED	IMP71977	2101380	422.124	6.118	15.000	5.732	0.750	15.000
+00080	28.277	1.126	15.000	2409.220	311.729	15.000	0.067	0.003		
+00160	15.000	5.105	0.922	15.000	0.0	0.0	15.000	-37.566		
+00240	6.818	15.000	0.0	0.0	15.000	0.977E 07	0.343E 08	0.150E		
+00320	02	0.936E 07	0.832E 05	0.150E 02	0.977E 07	0.136E 06	0.150E 02	-0.1		
+00400	00E 03	0.0	0.150E 02	IMP71977	2101385	433.479	6.557	14.000		
+00480	5.482	1.099	14.000	26.536	3.266	14.000	2366.559	467.475		
+00560	14.000	0.061	0.008	14.000	4.566	0.538	14.000	0.0		
+00640	0.0	14.000	-34.500	4.048	14.000	0.0	0.0	14.000	0	
+00720	.923E 07	0.369E 08	0.140E 02	0.907E 07	0.113E 07	0.140E 02	0.923E 07			
+00800	0.197E 07	0.140E 02	-0.100E 03	0.0	0.140E 02	IMP71977	2101390	4		
+00880	13.696	14.318	15.000	5.602	1.134	15.000	25.537	3.029		
+00960	15.000	2302.389	429.549	15.000						

43	430	PRINT REQUESTED	IMP71977	2101430	416.799	2.358	17.000	11.954	1.318	17.000
+00080	27.204	0.830	17.000	4970.727	542.793	17.000	0.065	0.002		
+00160	17.000	3.826	0.298	17.000	0.0	0.0	17.000	-27.814		
+00240	2.178	17.000	0.0	0.0	17.000	0.980E 07	0.644E 08	0.170E		
+00320	02	0.939E 07	0.138E 06	0.170E 02	0.980E 07	0.113E 06	0.170E 02	-0.1		
+00400	00E 03	0.0	0.170E 02							

***** END OF FILE 2 -- FILE CONTAINED 43 BLOCKS

***** START FILE 3

FATS038 DATA FILE IN ISCII/ASCII - TRANSLATED TO EBCDIC

***** END OF FILE 3 -- FILE CONTAINED 0 BLOCKS

FATS020 ANALYSIS TERMINATED AT TAPEMARK SEQUENCE

FINAL TOTALS							
FILES READ	BLOCKS READ	BYTES READ	FEET READ	TEMP ERRS	PERM ERRS	FILES WRITTEN	BLOCKS WRITTEN
2	430	1845130	7	0	0	0	0

D-39138
7/28/77 - 7/29/77

INPUT TAPE X-406 ON MT2
DATA INPUT H9 NF 1 FL 1 2 2

FILE	1	RECORD	1	LENGTH	4300BYTES
(4)	49405037	31393737	20323039	20202030	20202033
(8)	2A2A2A2A	2A2A2A2A	2A2A2A2A	2A2A2A2A	2A2A2A2A
(12)	2A2A2A2A	2A2A2A2A	2A2A2A2A	2A2A2A2A	2A2A2A2A
(16)	31362E30	30302020	20202030	2E303435	2A2A2A2A
(20)	2A2A2A2A	2A2A2A2A	2A2A2A2A	2A2A2A2A	2A2A2A2A
(24)	2A2A2A2A	2A2A2020	20203136	2E303030	2A2A2A2A
(28)	31362E30	30302020	20302E39	32394520	30372020
(32)	30322020	20302E33	38314520	31302020	20302E33
(36)	20302E39	32394520	30372020	20302E37	30304520
(40)	30304520	30332020	20302E33	33314520	30322020
(44)	30392020	20352020	20333034	2E383339	20202020
(48)	31362E36	38352020	20202030	2E333837	20202020
(52)	20312E30	32392020	20203135	2E303030	20203530
(56)	31352E30	30302020	20202030	2E303635	20202020
(60)	20302E30	34322020	20202030	2E303133	20202020
(64)	20302E30	20202020	20203135	2E303030	20202020
(68)	31352E30	30302020	20202030	2E302020	20202020
(72)	2E393739	45203037	20202030	2E363433	45203038
(76)	45203037	20202030	2E313030	45203036	20202030
(80)	20202030	2E313636	45203036	20202030	2E313530
(84)	2E302020	20202020	20202030	2E313530	45203032
(88)	30352E30	35312020	20202032	2E303832	20202020
(92)	32332E38	36352020	20203136	2E303030	20202020
(96)	31362E30	30302020	36373937	2E343032	20203730
(100)	20302E30	36352020	20202030	2E303036	20202020
(104)	20302E35	37322020	20203136	2E303030	20202020
(108)	31362E30	30302020	20202030	2E343537	20202020
(112)	20302E30	20202020	20202030	2E302020	20202020
(116)	20302E31	31324520	30392020	20302E31	36304520
(120)	37354520	30352020	20302E31	36304520	30322020
(124)	30362020	20302E31	36304520	30322020	20302E31
(128)	20302E31	36304520	30324940	50373139	37372032
(132)	20302E35	30302020	20203133	2E303030	20202020
(136)	31332E30	30302020	20203139	2E353638	20202020
(140)	39322E38	36332020	20313035	2E373239	20202020
(144)	20302E30	30342020	20203133	2E303030	20202020
(148)	31332E30	30302020	20202030	2E302020	20202020
(152)	20302E31	39382020	20202030	2E303533	20202020
(156)	20302E30	20202020	20203133	2E303030	20202030
(160)	20202030	2E313330	45203032	20202030	2E393338
(164)	2E313330	45203032	20202030	2E393736	45203037
(168)	45203032	20202030	2E313030	45203033	20202030
(172)	49405037	31393737	20323039	20203230	20202033
(176)	31352E30	30302020	20203233	2E353834	20202020
(180)	31392E35	31372020	20202031	2E363738	20202020
(184)	31392E31	39392020	20203135	2E303030	20202020
(188)	31352E30	30302020	20202031	2E353439	20202020
(192)	20302E30	20202020	20202030	2E302020	20202020
(196)	31332E30	34332020	20203135	2E303030	20202020
(200)	31352E30	30302020	20302E39	38354520	30372020
(204)	30322020	20302E39	33364520	30372020	20302E39
(208)	20302E39	38354520	30372020	20302E31	33304520
(212)	30304520	30332020	20302E30	20202020	20202020
(216)	30392020	32352020	20333131	2E313530	20202020
(220)	32382E30	30312020	20203233	2E363136	20202020
(224)	20312E35	33322020	20203131	2E303030	20203837

(2360)	20302E30	20202020	20203131	2E303030	20202020	32352E39	30312020	20202034	2E313235	20202020
(2400)	31312E30	30302020	20202030	2E312020	20202020	20302E30	20202020	20203131	2E303030	20202030
(2440)	2E393733	45203037	20202030	2E313338	45203039	20202030	2E313130	45203032	20202030	2E393339
(2480)	45203037	20202030	2E313337	45203036	20202030	2E313130	45203032	20202030	2E393733	45203037
(2520)	20202030	2E313535	45203036	20202030	2E313130	45203032	20202030	2E313030	45203033	20202030
(2560)	2E302020	20202020	20202030	2E313130	45203032	49405037	31393737	20323039	20203330	20202033
(2600)	30372E38	37372020	20202035	2E303930	20202020	31322E30	30302020	20203436	2E343738	20202020
(2640)	34342E32	39342020	20203132	2E303030	20202020	31372E39	30392020	20202032	2E363732	20202020
(2680)	31322E30	30302031	34303830	2E383539	20313331	35382E39	33382020	20203132	2E303030	20202020
(2720)	20302E30	35382020	20202030	2E303038	20202020	31322E30	30302020	20202034	2E333231	20202020
(2760)	20312E31	34382020	20203132	2E303030	20202020	20302E30	20202020	20202030	2E302020	20202020
(2800)	31322E30	30302020	20203233	2E323830	20202020	20362E34	31392020	20203132	2E303030	20202020
(2840)	20302E30	20202020	20202030	2E302020	20202020	31322E30	30302020	20302E39	37364520	30372020
(2880)	20302E32	30354520	30392020	20302E31	32304520	30322020	20302E39	33394520	30372020	20302E38
(2920)	39374520	30352020	20302E31	32304520	30322020	20302E39	37364520	30372020	20302E31	31314520
(2960)	30362020	20302E31	32304520	30322020	20302E31	30304520	30332020	20302E30	20202020	20202020
(3000)	20302E31	32304520	30324940	50373139	37372032	30392020	33352020	20333039	2E373430	20202020
(3040)	20332E31	31322020	20203137	2E303030	20202020	33312E34	36362020	20203237	2E383638	20202020
(3080)	31372E30	30302020	20203138	2E393835	20202020	20312E39	31312020	20203137	2E303030	20203936
(3120)	38392E37	31352020	38343939	2E343330	20202020	31372E30	30302020	20202030	2E303631	20202020
(3160)	20302E30	30362020	20203137	2E303030	20202020	20342E36	35372020	20202030	2E383233	20202020
(3200)	31372E30	30302020	20202030	2E302020	20202020	20302E30	20202020	20203137	2E303030	20202020
(3240)	32352E31	35382020	20202034	2E343837	20202020	31372E30	30302020	20202030	2E302020	20202020
(3280)	20302E30	20202020	20203137	2E303030	20202030	2E393830	45203037	20202030	2E313436	45203039
(3320)	20202030	2E313730	45203032	20202030	2E393337	45203037	20202030	2E313134	45203036	20202030
(3360)	2E313730	45203032	20202030	2E393830	45203037	20202030	2E313231	45203036	20202030	2E313730
(3400)	45203032	20202030	2E313030	45203033	20202030	2E302020	20202020	20202030	2E313730	45203032
(3440)	49405037	31393737	20323039	20203430	20202033	30372E36	36382020	20202034	2E383232	20202020
(3480)	31332E30	30302020	20203432	2E393230	20202020	34302E33	32382020	20203133	2E303030	20202020
(3520)	31382E31	33352020	20202032	2E363735	20202020	31332E30	30302031	33303035	2E303437	20313139
(3560)	36362E30	34372020	20203133	2E303030	20202020	20302E30	35392020	20202030	2E303038	20202020
(3600)	31332E30	30302020	20202034	2E313331	20202020	20312E30	32302020	20203133	2E303030	20202020
(3640)	20302E30	20202020	20202030	2E302020	20202020	31332E30	30302020	20203232	2E323332	20202020
(3680)	20352E37	30322020	20203133	2E303030	20202020	20302E30	20202020	20202030	2E302020	20202020
(3720)	31332E30	30302020	20302E39	37364520	30372020	20302E31	39314520	30392020	20302E31	33304520
(3760)	30322020	20302E39	33364520	30372020	20302E31	31354520	30362020	20302E31	33304520	30322020
(3800)	20302E39	37364520	30372020	20302E31	38374520	30362020	20302E31	33304520	30322020	20302E31
(3840)	30304520	30332020	20302E30	20202020	20202020	20302E31	33304520	30324940	50373139	37372032
(3880)	30392020	34352020	20333130	2E353935	20202020	20312E39	30362020	20203230	2E303030	20202020
(3920)	33312E33	35382020	20203236	2E313431	20202020	32302E30	30302020	20203139	2E303030	20202020
(3960)	20312E35	32332020	20203230	2E303030	20203937	34372E35	38322020	38323631	2E373835	20202020
(4000)	32302E30	30302020	20202030	2E303631	20202020	20302E30	30352020	20203230	2E303030	20202020
(4040)	20342E37	31362020	20202031	2E333535	20202020	32302E30	30302020	20202030	2E302020	20202020
(4080)	20302E30	20202020	20203230	2E303030	20202020	32352E35	33322020	20202037	2E333030	20202020
(4120)	32302E30	30302020	20202030	2E302020	20202020	20302E30	20202020	20203230	2E303030	20202030
(4160)	2E393339	45203037	20202030	2E313532	45203039	20202030	2E323030	45203032	20202030	2E393139
(4200)	45203037	20202030	2E393233	45203036	20202030	2E323030	45203032	20202030	2E393339	45203037
(4240)	20202030	2E313635	45203037	20202030	2E323030	45203032	20202030	2E313030	45203033	20202030
(4280)	2E302020	20202020	20202030	2E323030	45203032					

FILE	1	RECORD	2	LENGTH	4300BYTES
(4)	49405037	31393737	20323039	20203530	20202033
(8)	31332E30	30302020	20203330	2E333637	20202020
(12)	31392E30	33352020	20202031	2E363732	20202020
(16)	33312E33	36372020	20203133	2E303030	20202020
(20)	31332E30	30302020	20202034	2E363438	20202020
(24)	20302E30	20202020	20202030	2E302020	20202020
(28)	20382E38	38302020	20203133	2E303030	20202020
(32)	31332E30	30302020	20302E39	38314520	30372020
(36)	30322020	20302E39	33374520	30372020	20302E31
(40)	20302E39	38314520	30372020	20302E31	37344520
(44)	30304520	30332020	20302E30	20202020	20202020
(48)	30392020	35352020	20333039	2E343734	20202020
(52)	32302E33	35372020	20202032	2E383734	20202020

IMP-1 & J

PLASMA DATA

72-078A-04B ✓

SPMS-00272

73-078A-04A ✓

This data set catalog consists of ² data tape. The tape ^{is} ~~is~~ ^{and is multi-filed} 30% BPI, Binary, 7 track with ~~4~~ files of data. The tape ^{was} ~~was~~ ^{were} created on an UNIVAC 418 computer.

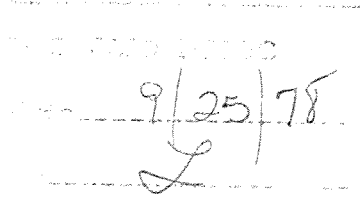
Time span is as follows:

<u>ID#</u>	<u>CD</u>	<u>FILE NO.</u>	<u>DATE RANGE</u>
72-078A	C-20214	F1- IMP-1 F3- IMP-3	12/20/77 - 12/31/77 12/01/77 - 12/1/77
* 0-35137	C-20717	8	7/28/77 - 7/29/77

* C tape is 9 track, 1600 BPI

The University of Iowa

Department of Physics and Astronomy
Iowa City, Iowa 52242
319/353-4343



September 22, 1978

Dr. James I. Vette
Code 601
NASA/Goddard Space Flight Center
Greenbelt, Maryland 20771

Re: Coordinated Data Analysis Workshop

Dear Jim,

Enclosed is the data tape format for our submission of plasma parameters obtained from the LEPEDEA instruments on IMP-7, IMP-8, ISEE-1, and ISEE-2. The nominal temporal resolution for the IMP-7 and -8 data is 163.84 seconds. For ISEE-1 and -2 the temporal resolution is 512 seconds for low-bit-rate telemetry (DAYS 335-336) and 128 seconds for high-bit-rate telemetry (DAYS 345-346).

The tape formats for all four spacecraft are identical. Note, however, that some parameters are available only for the IMP's while others are available only for ISEE. The notations on the format sheets indicate which items are present for the different spacecraft.

A test tape is being shipped under separate cover. The full data set on a single tape will be shipped early next week. If there are any questions concerning the tape format or the data I may be contacted at (319)353-6798.

Sincerely,

K. L. Ackerson

KLA/sm
Encl.

UNIVERSITY OF IOWA/LEPEDEA

CDAW TAPE FORMAT FOR PLASMA DATA

Physical Parameters

Logical Parameters

7-Track

Log. Rec. Length = 1800 bits

Odd Parity

= 300 tape characters

800 bpi

= 50 items (@ 36 bits)

UNIVAC 418 Computer

Blocking factor = 10

UNISERVO VI Tape

1 EOF between files

3 EOF's at End-of-Tape

IMP 7/8
ISEE 1/2

	<u>A(I)</u>	<u>ITEM</u>	<u>UNITS</u>
✓	✓	1. S/C ID.	(7=IMP7, 8=IMP8, 9=ISEE-A, 10=ISEE-B)
✓	✓	2 YEAR	
✓	✓	3 DAY	
✓	✓	4 HOUR	
✓	✓	5 MINUTE	
✓	✓	6 SECOND	
✓	✓	7 XSE	Earth Radii
✓	✓	8 YSE	" "
✓	✓	9 ZSE	" "
✓	10	XSM	" "
✓	11	YSM	" "
✓	12	ZSM	" "

PLASMA PROTON DATA

✓	13	J_p	Number Flux, $(\text{cm}^2\text{-sec})^{-1}$
✓	14	F_p	Energy Flux, $\text{ergs}(\text{cm}^2\text{-sec})^{-1}$
✓	15	N_p	Number Density, $(\text{cm}^3)^{-1}$
✓	16	W_p	Energy Density, $\text{ergs}(\text{cm}^3)^{-1}$
✓	17	$\langle E \rangle_p$	Average Energy, eV

IMP 7/8
ISEE 1/2

A(I)	ITEM	UNITS
✓ 18	V _{xp}	Bulk Flow Velocity, Km(sec) ⁻¹
✓ 19	V _{yp}	
✓ 20	V _{zp}	
✓ 21	dV _{xp}	Velocity Uncertainty, Km(sec) ⁻¹
✓ 22	dV _{yp}	
✓ 23	dV _{zp}	
✓ 24	T _{1p}	Temperature, eV
✓ 25	T _{2p}	
✓ 26	% _p	Percent Energy Coverage

PLASMA ELECTRON DATA

✓ 27	J _e	Number Flux, (cm ² -sec) ⁻¹
✓ 28	F _e	Energy Flux, ergs(cm ² -sec) ⁻¹
✓ 29	N _e	Number Density, (cm ³) ⁻¹
✓ 30	W _e	Energy Density, ergs(cm ³) ⁻¹
✓ 31	<E> _e	Average Energy, eV
32	V _{xe}	Bulk Flow Velocity, Km(sec) ⁻¹
33	V _{ye}	
34	V _{ze}	
35	dV _{xe}	Velocity Uncertainty, Km(sec) ⁻¹
36	dV _{ye}	
37	dV _{ze}	
✓ 38	T _{1e}	Temperature, eV
39	T _{2e}	
✓ 40	% _e	Percent Energy Coverage

✓ 41	ERF	Energy Range Flag (1=Full, 2=Low, 3=High)
42	B _x	Magnetic Field, nanoTesla
43	B _y	
44	B _z	
45-50	SPARE	

FILL DATA = -1.0 E + 09

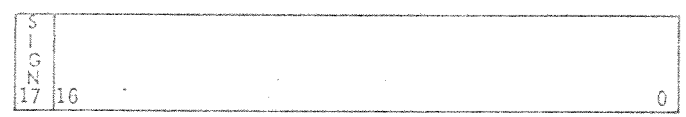
APPENDIX D. UNIVAC 418 INTERNAL REPRESENTATION OF FORTRAN DATA

The basic unit of information for the UNIVAC 418 system is a word. A word is of fixed length and consists of 18 bits. Bit positions 0 through 16 represent data. Bit position 17 indicates the sign of the word.

The following paragraphs present the internal data formats for the various FORTRAN data types. Refer to Appendix E for the internal character code representation.

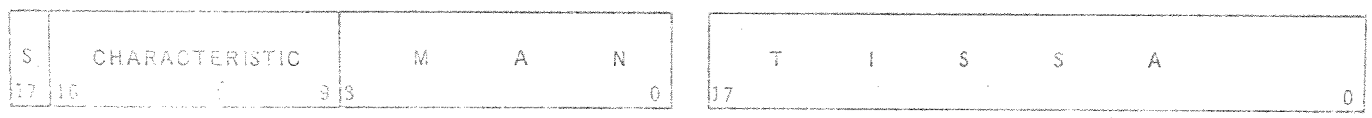
1. INTEGER DATA

An integer datum requires one word of UNIVAC 418 main storage and ranges in value from -131071_{10} to $+131071_{10}$.



2. Real Data

A real datum requires two contiguous words of UNIVAC 418 main storage. A real value may consist of from 1 to 8 significant decimal digits; the internal representation of real values is:

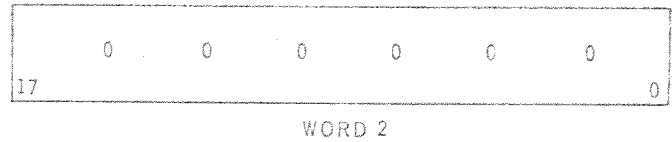
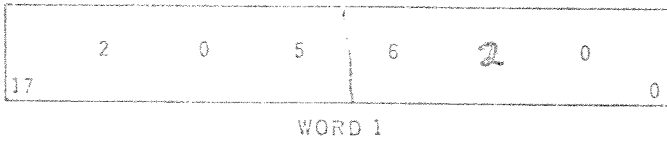


Two words consist of 35 bits plus one bit used for the sign. Of the 35 bits used to hold the number, 8 are used for the characteristic and 27 are used for the fraction. With 8 bits the integers from 0 to 255 can be stored. Since signed exponents are desirable the characteristic instead of the exponent is stored in positions 1-8. A characteristic is formed from an exponent by adding 128 so that exponents from -128 to +127 can be represented. In a binary number, the exponent refers to base of 2, so that scale factors range from 2^{-128} to 2^{127} or approximately 10^{-38} to 10^{38} . A normalized real number is one having a 1 in the leftmost bit of the fraction.

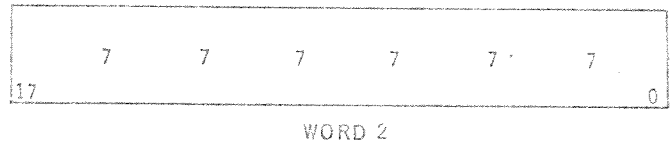
For positive numbers the sign bit is zero.

An example of a positive number converted to internal real form is the following:

Convert the number 25
 Binary form: 011001
 Normalized binary form: $.11001 \times 2^5$
 Normalized Octal form (fraction) 62
 Characteristic: $128 + 5 = 133 = 205_8$
 Number in main storage in octal



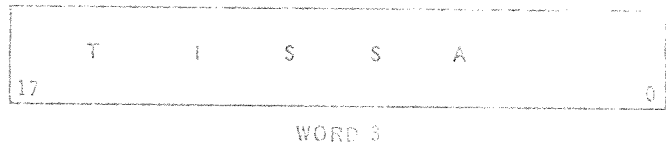
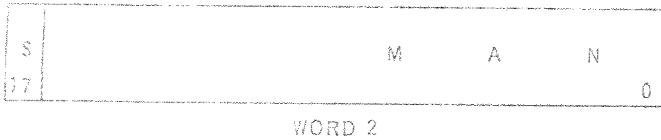
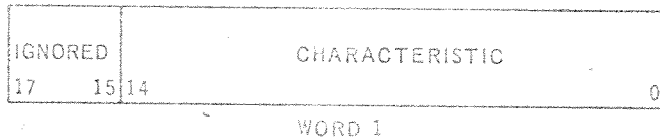
In the UNIVAC 418 system a negative number is represented as a ones complement of the positive number. Therefore a -25 will appear in main storage as the following:



Note: both WORD1 and WORD2 are complemented and the sign bit is always 1 for negative numbers.

3. Double Precision Data

A double precision datum requires three contiguous words of UNIVAC 418 main storage. A double precision value may consist of up to 11 significant decimal digits. The internal representation of double precision data is the following:



15 bits of WORD 1 are used for the characteristic; and 35 bits plus sign bit are used for the fraction. Since 15 bits are available for the characteristic instead of the 8 bits for real exponents from -16383 to 16384 can be represented. Scale factors range from 2^{-16383} to 2^{16384} or approximately 10^{-4865} to 10^{4865} . The characteristic is formed by adding 16384_{10} or $40,000_8$ to the exponent.

Note: Negative double precision data are complements of positive double precision data; however, WORD 2 and WORD 3 are only complemented and bit 17 of WORD 2 is the sign of the fraction.

7/28/77-7/29/77

RECORD 1 OF FILE 1
LENGTH = 2250 BYTES

1(1)	016000000474	200000045000	000446000000	000000000466	143000026565	477323626107	013441100457	333677751236
9(49)	444446174557	153604772357	601537010705	214345035566	052616271361	356521033776	575310144677	020036274407
17(97)	356640601012	537310144677	601012536476	000000162532	074377721462	601012536277	722255047373	723310144677
25(145)	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	000000001310	144677601012
33(193)	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000	045000000446
41(241)	000000014000	000454515000	026510601323	641705013451	466457341710	751232266446	140466153464	412357171037
49(289)	010507726345	542235052635	523361313111	035612145310	144677020242	512406073471	601012537310	144677601012
57(337)	536476000000	162622662377	301012601012	536277702665	047222447310	144677601012	537310144677	601012537310
65(385)	144677601012	537310144677	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677
73(433)	601012537310	144677601012	537310144677	016000000474	200000045000	000446000000	023000000465	352000026545
81(481)	425323707433	013526346457	362656751260	340446107131	153406744357	664525010554	504345401044	052533565361
89(529)	466514036114	351310144677	020160760405	174760601012	537310144677	601012536476	000000162470	742376356750
97(577)	601012536277	513702046645	625310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677016000	000474200000	045000000446	000000020400	000447312000	026601653323	745307013502	674457403335
121(721)	751302744446	045367153100	554356572157	010363146344	562343052560	647361435137	037333575310	144677020567
129(769)	116405105201	601012537310	144677601012	536476000000	162273522377	106066601012	536277655411	050007313310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677
145(865)	601012537310	144677601012	537310144677	601012537310	144677601012	537310144677	016000000474	200000045000
153(913)	000446000000	023000000465	572000026624	061323771332	013512454457	411040751367	020446022344	154542626357
161(961)	355043011476	264345265135	052524235361	461121036723	015310144677	020462600405	536575601012	537310144677
169(1009)	601012536476	000000162727	432377473671	601012536277	337017047020	705310144677	601012537310	144677601012
177(1057)	537310144677	601012537310	144677601012	536476000000	00000001310	144677601012	537310144677	601012537310
185(1105)	144677601012	537310144677	601012537310	144677016000	000474200000	045000000446	000000026000	000444376000
193(1153)	026660445323	037360013667	232457431202	751303712446	752730153253	126357704075	010314650345	175746052740
201(1201)	047361173246	034730751310	144677020356	166407440132	601012537310	144677601012	536476000000	162266534377
209(1249)	306354601012	536277004352	047075353310	144677601012	537310144677	601012537310	144677601012	537310144677
217(1297)	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012
225(1345)	537310144677	016000000474	200000045000	000446000000	030200000464	001000026614	421323075630	013643450457
233(1393)	441250751313	506446703347	154471610364	350234011232	702345612374	053166665361	005774034741	021310144677
241(1441)	020554510407	420701601012	537310144677	601012536476	000000163211	254404031764	601012536304	670733047527
249(1489)	343310144677	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	000000001310
257(1537)	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000
265(1585)	045000000446	000000031600	000426240000	026637727323	112002013653	424457456347	751371646446	651774154735
273(1633)	460364110431	011371202345	502655053215	251360661430	034063405310	144677017774	244407543055	601012537310
281(1681)	144677601012	536476000000	167500670377	767132601012	536304766056	042410237310	144677601012	537310144677
289(1729)	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677	601012537310	144677601012
297(1777)	537310144677	601012537310	144677601012	537310144677	016000000474	200000045000	000446000000	033000000457
305(1825)	443000026677	425323165550	013751006457	477242751406	256446570672	154617226364	077036011340	116345344624
313(1873)	053231573360	654727033056	671310144677	017736720414	050345601012	537310144677	601012536476	000000001310
321(1921)	226377160566	601012536277	777435045267	725310144677	601012537310	144677601012	537310144677	601012537310
329(1969)	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677
337(2017)	601012537310	144677016000	000474200000	045000000446	000000034200	000467721000	026633063323	224373013724
345(2065)	042457516445	751404250446	522767154255	454357255515	011166160345	043372052622	547361315307	033352675310
353(2113)	144677020052	242407601536	601012537310	144677601012	536476000000	161501512377	113250601012	536277521560
361(2161)	050403745310	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000
369(2209)	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012	537310144677	

RECORD 2 OF FILE 1
LENGTH = 2250 BYTES

1(1)	016000000474	200000045000	000446000000	035600000456	073000026655	423323250726	014034154457	523241751453
9(49)	024446462531	153117524356	717634010307	546344334211	052347521361	723034032134	231310144677	017645030414
17(97)	715270601012	537310144677	601012536476	000000162307	314377401021	601012536277	637356047574	563310144677
25(145)	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	000000001310	144677601012
33(193)	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000	045000000446
41(241)	000000000000	000466141000	026611211323	307717014010	422457542120	751443324446	400075153707	754357734320
49(289)	011021714345	602111052302	663361673650	030102357310	144677020136	206404141246	601012537310	144677601012
57(337)	536476000000	162225650377	601635601012	536277361153	047767547310	144677601012	537310144677	601012537310
65(385)	144677601012	537310144677	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677
73(433)	601012537310	144677601012	537310144677	016000000474	200000045000	000446000000	014000000454	521000026644
81(481)	403323347126	014063340457	560601751527	764446325723	152621000356	067767010120	256344613167	052317307361
89(529)	707025030024	107310144677	020440320404	666313601012	537310144677	601012536476	000000162513	660377164677
97(577)	601012536277	750333047504	745310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677016000	000474200000	045000000446	000000023000	000465350000	026666033323	373772014173	626457575061
121(721)	751570132446	260256152527	764356111740	010064124344	557453052443	457361602735	030017531310	144677020550
129(769)	012404130246	601012537310	144677601012	536476000000	162447562376	705515601012	536277302017	047431421310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677
145(865)	601012537310	144677601012	537310144677	144677601012	144677601012	537310144677	016000000474	200000045000
153(913)	000446000000	020400000447	322000026721	343323433337	014146750457	613111751547	334446172000	153602252357
161(961)	034163010733	556345556474	052474653361	560417036517	465310144677	020150366405	040701601012	537310144677
169(1009)	601012536476	000000162572	716376207035	601012536277	012762047220	705310144677	601012537310	144677601012
177(1057)	537310144677	601012537310	144677601012	536476000000	00000001310	144677601012	537310144677	601012537310
185(1105)	144677601012	537310144677	601012537310	144677016000	000474200000	045000000446	000000023000	000465570000
193(1153)	026750313323	465530014177	202457620125	751514446446	120536152634	010356510770	010232144344	005724052351
201(1201)	631361666715	037466505310	144677020456	704404442022	601012537310	144677601012	536476000000	162373000376
209(1249)	420733601012	536277470775	046737363310	144677601012	537310144677	601012537310	144677601012	537310144677
217(1297)	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012
225(1345)	537310144677	016000000474	200000045000	000446000000	025400000466	116000026702	701323525323	014252464457
233(1393)	645700751565	272446035301	153574452357	510220010724	376345410253	052356767361	674346030026	137310144677
241(1441)	020172752404	160010601012	537310144677	601012536476	000000162623	102377007052	601012536277	532302047465
249(1489)	371310144677	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	00000001310
257(1537)	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000
265(1585)	045000000446	000000030200	000447106000	026735661323	565225014225	374457653350	751532700446	743353154174
273(1633)	270357157675	011104344345	347456052443	053361552746	030141753310	144677020101	100404146443	601012537310
281(1681)	144677601012	536476000000	163006612404	315603601012	536304176736	047437561310	144677601012	537310144677
289(1729)	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677	601012537310	144677601012
297(1777)	537310144677	601012537310	144677601012	537310144677	016000000474	200000045000	000446000000	031400000465
305(1825)	326000026757	707323612513	014335404457	666717751562	202446670745	154374506357	615561011271	170345216342
313(1873)	052716447361	246276030264	301310144677	020206310377	004177601012	537310144677	601012536476	000000163162
321(1921)	372404200246	601012536304	434041047671	051310144677	601012537310	144677601012	537310144677	601012537310
329(1969)	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677
337(2017)	601012537310	144677016000	000474200000	045000000446	000000033000	000445166000	026712015323	652650014307
345(2065)	520457704032	751627310446	603653153537	604357020435	010666470345	462214052531	703361505126	037524535310
353(2113)	144677020242	132404641062	601012537310	144677601012	536476000000	166007434377	543461601012	536304521776
361(2161)	044152245310	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000
369(2209)	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012	537310144677	

RECORD 38 OF FILE 1
LENGTH = 2250 BYTES

1(1)	016000000474	200000045100	000455000000	032200000456	526000027307	156435165660	024465454457	746037013057
9(49)	224446562067	163371300376	671763014401	036356361106	051775133353	210601035225	475310144677	022445440404
17(97)	620641601012	537310144677	601012536476	000000161036	064377460765	601012536276	772430046634	001310144677
25(145)	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	000000001310	144677601012
33(193)	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000	045100000455
41(241)	000000033400	000466766000	027361270435	401754024412	702457733170	013166154446	574600163230	570376612613
49(289)	014174766356	624601052213	133353746050	035062527310	144677022730	454404347200	601012537310	601012537310
57(337)	536476000000	162603614377	335544601012	536277152776	044661403310	144677601012	537310144677	601012537310
65(385)	144677601012	537310144677	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677
73(433)	601012537310	144677601012	537310144677	016000000474	200000045100	000455000000	035000000455	154000027333
81(481)	716435635746	024437514457	717737013204	346446573563	162331662375	465045013340	302356034362	0520006075353
89(529)	143570034645	363310144677	023067026404	554260601012	537310144677	601012536476	000000166312	064376766425
97(577)	601012536277	574333041402	121310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677016000	000474200000	045100000455	000000036200	000466176000	027315730435	773025024455	04467702764
121(721)	013346700446	573312163375	502376625537	014473334356	401763051752	453353153621	034713655310	144677024172
129(769)	700404375120	601012537310	144677601012	536476000000	161341562376	037010601012	536276572253	045120531310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677
145(865)	601012537310	144677601012	537310144677	601012537310	144677601012	537310144677	016000000474	200000045100
153(913)	000455000000	000000000466	760000027376	530435140117	024472374457	675664013414	574446601242	162413736376
161(961)	234727013352	630356455207	052101161353	017325034723	531310144677	023125302377	414365601012	537310144677
169(1009)	601012536476	000000160441	234376576033	601012536276	160213046477	227310144677	601012537310	144677601012
177(1057)	537310144677	601012537310	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310
185(1105)	144677601012	537310144677	601012537310	144677016000	000474200000	045100000455	000000016000	000455160000
193(1153)	027350624435	363524024417	002457661752	013553132446	606475163613	546376312073	015011140357	224734051667
201(1201)	015353213007	034312113310	144677023742	200377451627	601012537310	144677601012	536476000000	160463606376
209(1249)	550041601012	536276472365	047232553310	144677601012	537310144677	601012537310	144677601012	537310144677
217(1297)	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012
225(1345)	537310144677	016000000474	200000045100	000455000000	025000000444	710000027326	052435563556	024440272457
233(1393)	655035013724	052446607645	161306464374	565727012671	750355705646	051136761353	746461033724	765310144677
241(1441)	024350126406	064564601012	537310144677	601012536476	000000160514	304377055246	601012536276	450701047201
249(1489)	713310144677	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	000000001310
257(1537)	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000
265(1585)	045100000455	000000020400	000466516000	027300050435	006640024464	712457640434	014077616446	605256161464
273(1633)	164375605677	012474300355	043762051777	001353234457	033731245310	144677024644	646405430355	601012537310
281(1681)	144677601012	536476000000	160741756377	022376601012	536276145011	047613607310	144677601012	537310144677
289(1729)	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677	601012537310	144677601012
297(1777)	537310144677	601012537310	144677601012	537310144677	016000000474	200000045100	030455000000	023000000406
305(1825)	360000027351	364435231567	024511706457	623552014160	360446576134	161705642375	735721013301	560355116234
313(1873)	051215541353	740654034314	757310144677	021340356414	134307601012	537310144677	601012536476	000000160654
321(1921)	036376713263	601012536276	637243047123	727310144677	601012537310	144677601012	537310144677	601012537310
329(1969)	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677
337(2017)	601012537310	144677016000	000474200000	045100000455	000000026000	000466735000	027332310435	376177024526
345(2065)	456457615534	014253104446	576765162217	356375107505	013611244355	505165051146	513353021344	034417201310
353(2113)	144677025222	126405003061	601012537310	144677601012	536476000000	160426176376	104573601012	536276344271
361(2161)	046476011310	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000
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17(97)	123665601012	537310144677	601012536476	000000157651	242375116063	601012536275	561024046134	757310144677
25(145)	601012537310	144677601012	537310144677	601012537310	144677601012	536475200000	000000001310	144677601012
33(193)	537310144677	601012537310	144677601012	537310144677	601012537310	144677016000	000474200000	045100000455
41(241)	000000031600	000465145000	027255430435	052776024576	172457562660	014553252446	564515165755	510404206274
49(289)	017152276364	005642052156	205353535007	032741065310	144677021767	160406415303	601012537310	144677601012
57(337)	536476000000	161265674376	054350601012	536276552552	046423135310	144677601012	537310144677	601012537310
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73(433)	601012537310	144677601012	537310144677	016000000474	200000045100	000455000000	033200000445	264000027236
81(481)	304435217035	024513776457	554116014660	346446564740	163177272377	564620013532	450357523402	053127527353
89(529)	106327034336	247310144677	023765752406	740461601012	537310144677	601012536476	000000161700	120376357533
97(577)	601012536277	176133046472	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677016000	000474200000	045100000455	000000034400	000464364000	027207116435	441055024537	512457546023
121(721)	015076276446	551114161072	162375412041	011707520355	275500052245	127353731220	035131163310	144677024307
129(769)	350374150740	601012537310	144677601012	536476000000	161700756376	624713601012	536277170055	046451365310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677
145(865)	601012537310	144677601012	537310144677	601012537310	144677601012	537310144677		

39 RECORDS IN FILE 1 OF TAPE

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17(97)	335075601012	537310144677	601012536457	000000141367	714355225700	601012536254	374426061517	521310144677
25(145)	601012537310	144677601012	537310144677	601012537310	144677601012	536436000000	000000001310	144677601012
33(193)	537310144677	601012537310	144677601012	537310144677	601012537310	144677020000	000474200000	045000000446
41(241)	000000020000	000455441000	016507000457	210062024516	224427247404	031605524444	265614145776	564336470502
49(289)	003637566325	752034050020	645361615633	030055075310	144677022052	542444347227	601012537310	144677601012
57(337)	536454000000	133500404354	202365601012	536246572472	067332627310	144677601012	537310144677	601012537310
65(385)	144677601012	537310144677	601012536436	000000000000	001310144677	601012537310	144677601012	537310144677
73(433)	601012537310	144677601012	537310144677	020000000474	200000045000	000446000000	022400000457	264000016367
81(481)	050457207010	024515422427	776020031676	520444352242	000000000000	000000000000	000000000000	000000000000
89(529)	000000000000	001310144677	000000000000	000000601012	537310144677	601012536446	000000000000	000000000000
97(577)	601012536000	000000000000	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536000000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677020000	000474200000	045000000446	000000024400	000467075400	000227014457	073776024441	534404516436
121(721)	030675764454	303132000000	000000000000	000000000000	000000000000	000000000000	000000001310	144677000000
129(769)	000000000000	601012537310	144677601012	536000000000	000000000000	000000601012	536000000000	000000001310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536000	000000000000	001310144677
145(865)	601012537310	144677601012	537310144677	601012537310	144677601012	537310144677	020000000474	000000000000
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177(1057)	537310144677	601012537310	144677601012	536000000000	000000001310	144677601012	537310144677	601012537310
185(1105)	144677601012	537310144677	601012537310	144677020000	000474200000	045000000454	000000032600	000464654400
193(1153)	772667556457	054531024401	246365476237	030546064454	426565146746	516336235007	004540506325	342617050002
201(1201)	537361622120	030702475310	144677025743	450445012217	601012537310	144677601012	536454000000	146021126306
209(1249)	622161601012	536234376525	040755667310	144677601012	537310144677	601012537310	144677601012	537310144677
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241(1441)	000000000000	000000601012	537310144677	601012536000	000000000000	000000000000	601012536000	000000000000
249(1489)	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012	536000000000	000000001310
257(1537)	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310	144677020000	000474200000
265(1585)	045000000454	000000020400	000417450000	003677252457	016321024412	431401577531	030333004455	072654126260
273(1633)	060307545700	757272004274	165406052210	003353575457	774257337310	144677046065	206474327151	601012537310
281(1681)	144677601012	536446000000	000000000000	000000601012	536000000000	000000001310	144677601012	537310144677
289(1729)	601012537310	144677601012	537310144677	601012536000	000000000000	001310144677	601012537310	144677601012
297(1777)	537310144677	601012537310	144677601012	537310144677	020000000474	200000045000	000454000000	024000000466
305(1825)	140000000757	276457012265	024400437400	627177030307	122455266322	000000000000	000000000000	000000000000
313(1873)	000000000000	000000000000	001310144677	000000000000	000000601012	537310144677	601012536000	000000000000
321(1921)	000000000000	601012536000	000000000000	001310144677	601012537310	144677601012	537310144677	601012537310
329(1969)	144677601012	536000000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677
337(2017)	601012537310	144677020000	000474200000	045000000454	000000010000	000434400000	776757554457	005614024365
345(2065)	655373727222	030264622455	445562000000	000000000000	000000000000	000000000000	000000000000	000000000000
353(2113)	144677000000	000000000000	601012537310	144677601012	536000000000	130440502364	145673601012	536247543634
361(2161)	071517521310	144677601012	537310144677	601012537310	144677601012	537310144677	601012536436	000000000000
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17(97)	000000601012	537310144677	601012536000	000000000000	000000000000	000000000000	601012536000	000000000000
25(145)	601012537310	144677601012	537310144677	601012537310	144677601012	536000000000	000000001310	144677601012
33(193)	537310144677	601012537310	144677601012	537310144677	601012537310	144677020000	000474200000	045000000454
41(241)	000000024400	000464333000	774552236457	774774024345	015372224577	030270606455	714201000000	000000000000
49(289)	000000000000	000000000000	000000000000	000000001310	144677000000	000000000000	601012537310	144677601012
57(337)	536000000000	134046540356	331311601012	536247755603	072562775310	144677601012	537310144677	601012537310
65(385)	144677601012	537310144677	601012536436	000000000000	001310144677	601012537310	144677601012	537310144677
73(433)	601012537310	144677601012	537310144677	020000000474	200000045000	000455000000	031000000456	050000765032
81(481)	450457563773	024225727352	155624027527	722455602773	150144716355	732502004013	024337375611	053450557360
89(529)	703014031250	715310144677	023266656427	677344601012	537310144677	601012536476	000000164073	230415537041
97(577)	601012536314	621372050520	775310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677020000	000474200000	045000000455	000000032200	000466525000	764640212457	557411024214	773352560135
121(721)	027530202455	572627150004	450355277117	003622120337	165304053505	513360523725	030171045310	144677025363
129(769)	626434111446	601012537310	144677601012	536476000000	163500634415	445737601012	536314210055	051017225310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536475	200000000000	001310144677
145(865)	601012537310	144677601012	537310144677	601012537310	144677601012	020000000474	200000045000	050000045000
153(913)	000455000000	033600000455	432000764516	672457551722	024205661352	304361027532	176455555465	154732270354
161(961)	227517001653	616335215043	052634715361	647132031473	615310144677	020360674435	730604601012	537310144677
169(1009)	601012536475	200000163744	376415361117	601012536314	162262051161	347310144677	601012537310	144677601012
177(1057)	537310144677	601012537310	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310
185(1105)	144677601012	537310144677	601012537310	144677020000	000474200000	045000000455	000000035000	000465714000
193(1153)	764323764457	545145024273	273352716756	027540576455	535725143650	460336113100	774426354317	327106052210
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297(1777)	537310144677	601012537310	144677601012	537310144677	020000000474	200000045000	000455000000	025000000466
305(1825)	0450000763061	672457500132	024204261351	133361027673	334455335534	157133104356	216317002354	562337056053
313(1873)	055041013360	160534026747	561310144677	024763562427	651652601012	537310144677	601012536476	000000163407
321(1921)	010415043013	601012536314	161406050313	527310144677	601012537310	144677601012	537310144677	601012537310
329(1969)	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677
337(2017)	601012537310	144677020000	000474200000	045000000455	000000030000	000455172000	762667606457	502164024271
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17(97)	024142601012	537310144677	601012536476	000000162331	456415141633	601012536307	453644050552	423310144677
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41(241)	000000010000	000446134000	757556254456	646600022074	303323325536	025260356454	226741160311	236404276510
49(289)	011763174364	145305050542	221353161036	040766323310	144677017054	724427760771	601012537310	144677601012
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89(529)	552272036221	101310144677	016646560427	261340601012	537310144677	601012536476	000000162422	176415260073
97(577)	601012536314	246514050726	571310144677	601012537310	144677601012	537310144677	601012537310	144677601012
105(625)	536476000000	000000001310	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310
113(673)	144677020000	000474200000	045100000455	000000027000	000444070000	757577712456	603037022001	731323237735
121(721)	025142376454	203522164736	604376207240	017271616357	227342050500	143353717523	035205125310	144677020752
129(769)	004434115701	601012537310	144677601012	536476000000	162222246415	330444601012	536307773763	050716115310
137(817)	144677601012	537310144677	601012537310	144677601012	537310144677	601012536476	000000000000	001310144677
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169(1009)	601012536476	000000162421	674416174663	601012536314	733604051372	301310144677	601012537310	144677601012
177(1057)	537310144677	601012537310	144677601012	536476000000	000000001310	144677601012	537310144677	601012537310
185(1105)	144677601012	537310144677	601012537310	144677020000	000474200000	045100000455	000000025000	000425150000
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209(1249)	022766601012	536307333702	050406137310	144677601012	537310144677	601012537310	144677601012	144677601012
217(1297)	601012536476	000000000000	001310144677	601012537310	144677601012	537310144677	601012537310	144677601012
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233(1393)	121063025112	460454132500	164004556375	224275016763	760356360476	050005331353	505150032065	341310144677
241(1441)	020470764427	066311601012	537310144677	601012536476	000000162052	024415145116	601012536307	252360050704
249(1489)	447310144677	601012537310	144677601012	537310144677	601012537310	144677601012	536476000000	00000001310
257(1537)	144677601012	537310144677	601012537310	144677601012	537310144677	601012537310	144677020000	000474200000
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12/1/77-12/12/77

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393(2353)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
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97(577)	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000
105(625)	204700000000	202422740000	205620204463	205461646713	575321574714	205620204463	205440634423	574122114157
113(673)	234601544416	200431072300	202606241542	146402764650	213602155144	565272526017	206737156614	541043123277
121(721)	205444610303	203656173505	541043123277	541043123277	541043123277	207620000000	235561442126	201507220775
129(769)	541043123277	141416056244	212415723547	541043123277	541043123277	541043123277	541043123277	541043123277
137(817)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277
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161(961)	205440633620	574114255517	234564236102	200425614646	202566601263	145770327164	213607572747	565270557371
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265(1585)	202671712777	146452740312	213611611426	565267733512	206715444000	541043123277	205424760564	203622326577
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313(1873)	234650550447	200505246052	202644240655	146443561134	213623774353	565263500351	206762666034	541043123277
321(1921)	205442642712	203655342203	541043123277	541043123277	541043123277	207620000000	235556424435	201650545417
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337(2017)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277
345(2065)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000
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361(2161)	205440632231	574076073075	234755244310	200555564521	202757171426	146515641250	213610262602	565267745570
369(2209)	206756547664	541043123277	205406046645	203602322402	541043123277	541043123277	541043123277	207620000000
377(2257)	235577273370	201617204265	541043123277	141454077272	212453744270	541043123277	541043123277	541043123277
385(2305)	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277
393(2353)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
401(2401)	204400000000	207464000000	211532000000	203700000000	205740000000	205575452000	205616103140	205463466121
409(2449)	575300624256	205616103140	205440632172	574073245371	234553017475	200414751300	202555457721	145752423577

417(2497)	213606401557	565271034577	206547075340	541043123277	205454476463	203647026711	541043123277	541043123277
425(2545)	541043123277	207620000000	235571430316	201616077142	541043123277	141447771124	212447131512	541043123277
433(2593)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000
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449(2689)	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000	206410000000	203735640000
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465(2785)	202466360235	145637662646	213605645252	565271076607	206736107044	541043123277	205510332315	203737161463
473(2833)	541043123277	541043123277	541043123277	207620000000	235553427145	201650265333	541043123277	141451510340
481(2881)	212467471154	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
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RECORD 24 OF FILE 12
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17(97)	213577313153	565273553443	207420064132	541043123277	205457474656	203702407067	541043123277	541043123277
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33(193)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000
41(241)	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
49(289)	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000	206460000000	206425457000
57(337)	205615037160	205464373232	575270242734	205615037160	205440633414	574060252213	234422621166	177605715747
65(385)	202431577664	145554035700	213570036751	565276513374	207411074620	541043123277	205525515121	203766031654
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81(481)	212472461417	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
89(529)	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277
97(577)	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000
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137(817)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277
145(865)	541043123277	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000	205614202644
153(913)	211532000000	203700000000	206540000000	201756640000	205614202644	205465116032	575261757135	205614202644
161(961)	205440636515	574050217174	234441353530	177650755735	202444507007	145605275754	213603173551	565272020565
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273(1633)	541043123277	541043123277	541043123277	207620000000	235421243720	201540315473	541043123277	140715466572
281(1681)	212436155506	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
289(1729)	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277
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321(1921)	205544134610	204404530634	541043123277	541043123277	541043123277	207620000000	235572262643	541043123277
329(1969)	541043123277	141430727533	212425527130	541043123277	541043123277	541043123277	541043123277	541043123277
337(2017)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277
345(2065)	541043123277	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000	205612613470
353(2113)	211532000000	203700000000	206660000000	206703146000	205612613470	205466270501	575246250470	565272633761
361(2161)	205440653157	574031745416	234525336261	177761034000	202531637745	145712102274	213601441345	207620000000
369(2209)	206725024230	541043123277	205467052243	203700166632	541043123277	541043123277	541043123277	541043123277
377(2257)	236427200734	201620060450	541043123277	141552226644	211752612520	541043123277	541043123277	541043123277
385(2305)	541043123277	541043123277	541043123277	541043123277	541043123277	207504000000	201400000000	541043123277
393(2353)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
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24 RECORDS IN FILE 12 OF TAPE

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FILE	RECORD	39	LENGTH	12008BYTES				
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(144)	541.43123277	207621000000	233773514505	177562230363	541.43123277	137553444224	211706345733	541.43123277
(192)	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	207504000000
(240)	201400000000	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277
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(432)	541.43123277	541.43123277	541.43123277	207620000000	234452655572	177661361550	541.43123277	137653352652
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(672)	234546776575	177713463320	202565325124	145712416202	213545277243	565302171727	207617362503	541.43123277
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(864)	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	203700000000	207464000000
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(960)	203641766563	204613244614	234443722351	177530250241	202474073250	145545766400	213511452247	565316645220
(1008)	207644310351	541.43123277	204614074734	177443243440	541.43123277	541.43123277	541.43123277	207620000000
(1056)	234476005733	177674463513	541.43123277	137703740155	211720516746	541.43123277	541.43123277	541.43123277
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(1152)	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277

FILE	INPUT RECS.	DATA INPUT	RECORDS	MAX. SIZE	READ PERM	ERROR ZERO	SUMMARY SHORT	UNDEF.	INPUT #RECS.	RETRIES TOTAL#
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(192)	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	203600000000
(240)	201400000000	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277
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(336)	202725076004	205764200362	205624162452	202725076004	206471051242	204445567214	231675767346	173611642702
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(432)	541.43123277	541.43123277	541.43123277	205440000000	227566005006	175464011765	541.43123277	134633612072
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(576)	541.43123277	541.43123277	541.43123277	541.43123277	204400000000	207464000000	210642000000	204600000000
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(816)	541.43123277	541.43123277	541.43123277	000000000000	201400000000	541.43123277	541.43123277	541.43123277
(864)	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	204400000000	207464000000
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(1008)	000000000000	000000000000	000000000000	000000000000	541.43123277	541.43123277	541.43123277	000000000000
(1056)	000000000000	000000000000	541.43123277	000000000000	000000000000	541.43123277	541.43123277	541.43123277
(1104)	541.43123277	541.43123277	541.43123277	541.43123277	541.43123277	000000000000	201400000000	541.43123277
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(1584)	200626403213	142347013117	212401025263	566174410420	207435025176	541043123277	205674433120	204560211017	204560211017
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(144)	541043123277	207620000000	235464211115	210600551755	541043123277	140773106315	212475435637	541043123277	541043123277
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(384)	202556721613	145504767560	213401620325	565371551336	206570423250	541043123277	204614217370	203447674454	203447674454
(432)	541043123277	541043123277	541043123277	207620000000	235474623455	201553663615	541043123277	140766763214	140766763214
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(624)	205520000000	206441673700	572353426652	205626342270	205475676116	572353426652	205643605360	205454040576	205454040576
(672)	234457455326	177443564074	202572415373	145513431247	212775655120	565372335540	206636532620	541043123277	541043123277
(720)	204462703365	202722731653	541043123277	541043123277	541043123277	207620000000	235514233353	201530401175	201530401175
(768)	541043123277	140765554240	212414646016	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(816)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277	541043123277
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(960)	205643536110	205453264607	234627163232	177536074056	203412121347	145646466610	212716070314	566014133533	566014133533
(1008)	206553272020	541043123277	203750166143	202546614667	541043123277	541043123277	541043123277	207620000000	207620000000
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(201)	541043123277	541043123277	541043123277	217620000000	201400000000	541043123277	541043123277	541043123277	541043123277
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(211)	210644000000	215560000000	216600000000	216643200000	572347554671	215674116300	215473557662	572347554671	541043123277
(216)	205643426326	205446623260	233714465642	176670224052	202434372105	144770324601	213402007254	565366614545	541043123277
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(230)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
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(245)	215473171037	572346672266	205643454675	205445356462	235433776365	200407000550	203552215340	146457753513	541043123277
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(259)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000	541043123277
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FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY	INPUT RETRIES
				PERM ZERO B SHORT UNDEF.	#RECS. TOTAL#
8	3	21	2250		

EQJ DUMP STOPPED AFTER FILE 8 OF PERMANENT READ ERRORS

START TIME 10/19/79 16:50:40 STOP TIME 10/19/79 16:51:15

Imp-H&J
D-32375

INPUT TALE X-207 OF PSC
DATA INPUT

FI-2 # 12/01/77-12/12/77
FB-4 J 12/01/77-12/12/77

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(143)	541743123277	541743123277	234472353505	117621754141	541743123277	137722441531	211757635574	541743123277		
(192)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
(243)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
(284)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
(336)	2037200000000	207464000000	211510000000	204740000000	000000000000	206565736000	205833217730	572250643441		
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(432)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
(480)	211778117513	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
(528)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
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(720)	204534431235	177717552343	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
(768)	541743123277	137745343500	211754717502	541743123277	541743123277	541743123277	541743123277	541743123277		
(816)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
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(1104)	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277	541743123277		
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(2352)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
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(2448)	202512551044	205722770161	204700217406	203435140012	234556746002	200422263566	202547655631	145766717331
(2496)	213626577743	565257224530	207422647160	541043123277	205502655746	203734046077	541043123277	541043123277
(2544)	541043123277	207620000000	235561315373	201530052363	541043123277	141425207435	212433760370	541043123277
(2592)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000
(2640)	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(2688)	541043123277	541043123277	204400000000	207464000000	211531000000	205520000000	205540000000	206721514000
(2736)	205722631765	204717506460	202510453074	205722631765	204700626267	203434715663	234655077215	200462437624
(2784)	202656377453	146437310055	213604451041	565267452522	206744405464	541043123277	205434172210	203633267315
(2832)	541043123277	541043123277	541043123277	207620000000	235440031353	201640761763	541043123277	141564515050
(2880)	211726752376	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(2928)	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277
(2976)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277

FILE	4	RECORD	24	LENGTH	2400BYTES			
(0)	204400000000	207464000000	211532000000	203700000000	206430000000	206630517706	205615250327	205464212125
(48)	575272352061	205615250327	205440632733	574063033223	234544431354	200403566471	202552230407	145735222143
(96)	213577313133	565373553443	20742064132	541043123277	205457474654	203702407067	541043123277	541043123277
(144)	541043123277	207620000000	235564217771	201654742533	541043123277	141457054355	212462300140	541043123277
(192)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000
(240)	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(288)	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000	206460000000	206425457000
(336)	205615037160	205440633232	575270242734	205615037160	205440633414	574060252213	234422621166	177635715747
(384)	202431577064	145554035700	213570036751	565276513374	207411074620	541043123277	205525515121	203766031654
(432)	541043123277	541043123277	541043123277	207620000000	235601200710	201725665641	541043123277	141477126573
(480)	212472461417	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(528)	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277
(576)	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000
(624)	206510000000	205440633400	205614414334	203466735156	575264035264	205614414334	2054406335264	574052744173
(672)	234514751607	177704315375	202531620254	145660661516	213554243415	565302750626	207451664662	541043123277
(720)	205457715763	203712553140	541043123277	541043123277	541043123277	207620000000	235563503334	201563347242
(768)	541043123277	141433701627	212421753004	541043123277	541043123277	541043123277	541043123277	541043123277
(816)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277
(864)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000
(912)	211532000000	203700000000	206540000000	201756640000	205614202644	205465116032	575261757135	205614202644
(960)	205440636515	574050217174	234441353530	177650755735	202444507007	145605275754	213603173551	565272020565
(1008)	207430744524	541043123277	205525702055	203772524056	541043123277	541043123277	541043123277	207620000000
(1056)	235573136432	201613350400	541043123277	141453074537	212454367537	541043123277	541043123277	541043123277

(1230)	204400000000	207680000000	211532000000	203700000000	206560000000	206554314000	205613771055	205465276602
(1240)	575257665403	205013771055	205440640157	574045503543	234446655677	177638255422	202456667275	145605117071
(1270)	213548786760	545277256743	207474632126	541043123277	215507501371	203742076466	541043123277	541043123277
(1344)	541043123277	217620000000	235573236706	211921325172	541043123277	141422534556	212406677474	541043123277
(1392)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	207620000000
(1440)	204400000000	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(1480)	541043123277	541043123277	204477000000	207466000000	211532000000	203700000000	206610000000	205722516000
(1536)	205613240120	205465730041	575252436725	205613240120	205440645363	574037060256	234501053673	177667205241
(1584)	202517020270	145441323344	213552665171	565304240262	206764237414	541043123277	205457664111	203673537501
(1632)	541043123277	541043123277	541043123277	207620000000	235421243720	201540315473	541043123277	140715466572
(1680)	207474632126	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(1728)	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277	541043123277	541043123277
(1776)	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000	211532000000	203700000000
(1824)	206640000000	214631034100	205613025746	205466110314	575250343547	205613025746	205440650124	574034406104
(1872)	234436830531	177677670010	202432563443	145614775112	213630525282	565262153420	207403737572	541043123277
(1920)	205544134610	204404530634	541043123277	541043123277	541043123277	207620000000	235572262645	201534020274
(1968)	541043123277	141430722533	212425527130	541043123277	541043123277	541043123277	541043123277	541043123277
(2016)	541043123277	541043123277	541043123277	207620000000	201400000000	541043123277	541043123277	541043123277
(2064)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	204400000000	207464000000
(2112)	211532000000	203700000000	206600000000	206703146000	205612613470	205466270501	575246250470	205612613470
(2160)	215441653137	57403735416	234525336231	177761034000	212531637745	145712102274	213601441345	565272633701
(2208)	206725024230	541043123277	205467057243	203700166632	541043123277	541043123277	541043123277	207620000000
(2256)	235427200734	201420060450	541043123277	141552226644	211752612520	541043123277	541043123277	541043123277
(2304)	541043123277	541043123277	541043123277	541043123277	541043123277	207504000000	201400000000	541043123277
(2352)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY	INPUT RETRIES
				PERM ZERO B SHORT UNDEF.	#RECS. TOTAL#
4	24	25	3130	0 0 0 0	4 4

EOJ DUMP STOPPED AFTER FILE 4 OF PERMANENT READ ERRORS.

START TIME 11/03/78 08:13:00 STOP TIME 11/03/78 08:14:21

ISEE 1
ISEE 2
IMP-H
IMP-J

128- & 512-S RES. PLASMA DATA TAPE

77-102A-03A
77-102B-03A
72-073A-04C
73-078A-04B

These data sets have been restored. Originally there was one 7-track, 800 BPI tape, written in Binary. There is one restored tape. The original tape was created on a 418 computer, and the restored tape was created on an IBM 9021 computer. The DR tape is 3480 cartridge and the DS tape is 9-track, 6250 BPI. The DR and DS number along with their corresponding D number and time span is as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR-005158	DS-005158	DD-033384	8	12/01/77 - 12/12/77

REQ. AGENT
VJP

RAND NO.
RD1885

ACQ. AGENT
MJT

IMP H + J, ISEE 1 + 2

RESOLUTION PLASMA

72-073A-04C, 73-078A-04B **SPMS-00539**

SPMS-00118 77-102A-03A, 77-102B-03A **SPMS-00450**

This data set catalog consists of 1 data tape. The tape contains 4 experiment. The tape is 800 BPI, Binary, 7 track with 8 file of data. The tape was created on an UNIVAC 418 computer.

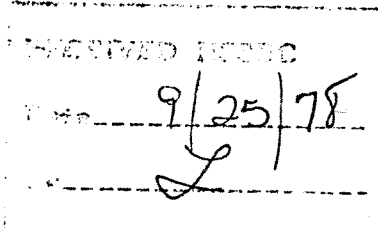
Time span is as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-33384	C-20496	12/01/77 - 12/12/77



The University of Iowa

Department of Physics and Astronomy
Iowa City, Iowa 52242
319/353-4343



September 22, 1978

Dr. James I. Vette
Code 601
NASA/Goddard Space Flight Center
Greenbelt, Maryland 20771

Re: Coordinated Data Analysis Workshop

Dear Jim,

Enclosed is the data tape format for our submission of plasma parameters obtained from the LEPDEEA instruments on IMP-7, IMP-8, ISEE-1, and ISEE-2. The nominal temporal resolution for the IMP-7 and -8 data is 163.84 seconds. For ISEE-1 and -2 the temporal resolution is 512 seconds for low-bit-rate telemetry (DAYS 335-336) and 128 seconds for high-bit-rate telemetry (DAYS 345-346).

also four data on tape

The tape formats for all four spacecraft are identical. Note, however, that some parameters are available only for the IMP's while others are available only for ISEE. The notations on the format sheets indicate which items are present for the different spacecraft.

A test tape is being shipped under separate cover. The full data set on a single tape will be shipped early next week. If there are any questions concerning the tape format or the data I may be contacted at (319)353-6798.

Sincerely,

K. L. Ackerson

KLA/sm
Encl.

#1

UNIVERSITY OF IOWA/LEPEDEA
CDAW TAPE FORMAT FOR PLASMA DATA

Physical Parameters

7-Track
Odd Parity

800 bpi

UNIVAC 418 Computer
UNISERVO VI Tape

Logical Parameters

Log. Rec. Length = 1800 bits
= 300 tape characters
= 50 items (@ 36 bits)

Blocking factor = 10
1 EOF between files
3 EOF's at End-of-Tape

IMP 7/8
ISEE 1/2

	<u>A(I)</u>	<u>ITEM</u>	<u>UNITS</u>
✓	1	S/C ID.	(7=IMP7, 8=IMP8, 9=ISEE-A, 10=ISEE-B)
✓	2	YEAR	
✓	3	DAY	
✓	4	HOUR	
✓	5	MINUTE	
✓	6	SECOND	
✓	7	XSE	Earth Radii
✓	8	YSE	" "
✓	9	ZSE	" "
✓	10	XSM	" "
✓	11	YSM	" "
✓	12	ZSM	" "

PLASMA PROTON DATA

✓	13	J_p	Number Flux, $(\text{cm}^2\text{-sec})^{-1}$
✓	14	F_p	Energy Flux, $\text{ergs}(\text{cm}^2\text{-sec})^{-1}$
✓	15	N_p	Number Density, $(\text{cm}^3)^{-1}$
✓	16	W_p	Energy Density, $\text{ergs}(\text{cm}^3)^{-1}$
✓	17	$\langle E \rangle_p$	Average Energy, eV

IMP 7/8
ISEE 1/2

	A(I)	ITEM	UNITS
✓	✓	18	V_{xp}
✓	✓	19	V_{yp}
	✓	20	V_{zp}
✓	✓	21	dV_{xp}
✓	✓	22	dV_{yp}
	✓	23	dV_{zp}
	✓	24	T_{1p}
		25	T_{2p}
✓	✓	26	$\%_p$

Bulk Flow Velocity, Km(sec)⁻¹

Velocity Uncertainty, Km(sec)⁻¹

Temperature, eV

Percent Energy Coverage

PLASMA ELECTRON DATA

✓	✓	27	J_e	Number Flux, (cm ² -sec) ⁻¹
✓		28	F_e	Energy Flux, ergs(cm ² -sec) ⁻¹
	✓	29	N_e	Number Density, (cm ³) ⁻¹
✓		30	W_e	Energy Density, ergs(cm ³) ⁻¹
✓	✓	31	$\langle E \rangle_e$	Average Energy, eV
		32	V_{xe}	Bulk Flow Velocity, Km(sec) ⁻¹
		33	V_{ye}	
		34	V_{ze}	
		35	dV_{xe}	Velocity Uncertainty, Km(sec) ⁻¹
		36	dV_{ye}	
		37	dV_{ze}	
	✓	38	T_{1e}	Temperature, eV
		39	T_{2e}	
✓	✓	40	$\%_e$	Percent Energy Coverage

Energy Range Flag (1=Full, 2=Low, 3=High)

Magnetic Field, nanoTesla

✓	✓	41	ERF
		42	B_x
		43	B_y
		44	B_z
		45-50	SPARE

FILL DATA = -1.0 E + 09

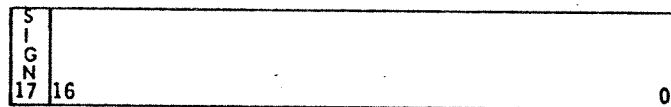
APPENDIX D. UNIVAC 418 INTERNAL REPRESENTATION OF FORTRAN DATA

The basic unit of information for the UNIVAC 418 system is a word. A word is of fixed length and consists of 18 bits. Bit positions 0 through 16 represent data. Bit position 17 indicates the sign of the word.

The following paragraphs present the internal data formats for the various FORTRAN data types. Refer to Appendix E for the internal character code representation.

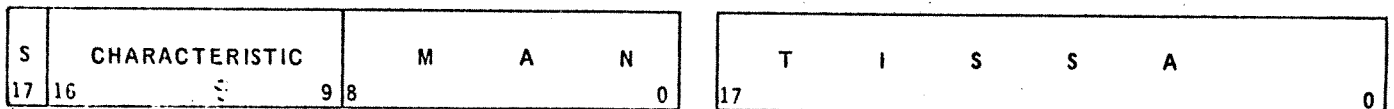
1. INTEGER DATA

An integer datum requires one word of UNIVAC 418 main storage and ranges in value from -131071_{10} to $+131071_{10}$.



2. Real Data

A real datum requires two contiguous words of UNIVAC 418 main storage. A real value may consist of from 1 to 8 significant decimal digits; the internal representation of real values is:

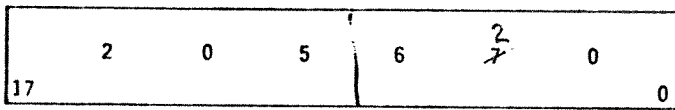


Two words consist of 35 bits plus one bit used for the sign. Of the 35 bits used to hold the number, 8 are used for the characteristic and 27 are used for the fraction. With 8 bits the integers from 0 to 255 can be stored. Since signed exponents are desirable the characteristic instead of the exponent is stored in positions 1-8. A characteristic is formed from an exponent by adding 128 so that exponents from -128 to $+127$ can be represented. In a binary number, the exponent refers to base of 2, so that scale factors range from 2^{-128} to 2^{127} or approximately 10^{-38} to 10^{38} . A normalized real number is one having a 1 in the leftmost bit of the fraction.

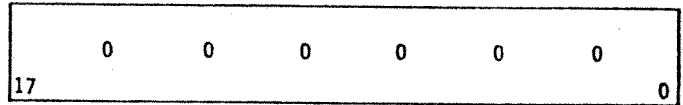
For positive numbers the sign bit is zero.

An example of a positive number converted to internal real form is the following:

Convert the number 25
 Binary form: 011001
 Normalized binary form: $.11001 \times 2^5$
 Normalized Octal form (fraction) 62
 Characteristic: $128 + 5 = 133 = 205_8$
 Number in main storage in octal

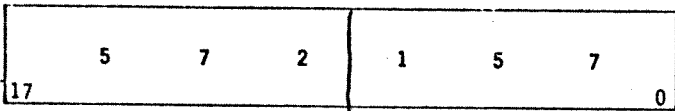


WORD 1

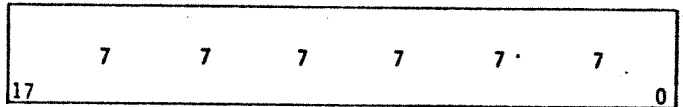


WORD 2

In the UNIVAC 418 system a negative number is represented as a ones complement of the positive number. Therefore a -25 will appear in main storage as the following:



WORD 1

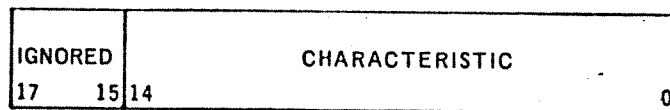


WORD 2

Note: both WORD1 and WORD2 are complemented and the sign bit is always 1 for negative numbers.

3. Double Precision Data

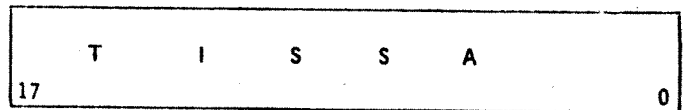
A double precision datum requires three contiguous words of UNIVAC 418 main storage. A double precision value may consist of up to 11 significant decimal digits. The internal representation of double precision data is the following:



WORD 1



WORD 2



WORD 3

15 bits of WORD 1 are used for the characteristic; and 35 bits plus sign bit are used for the fraction. Since 15 bits are available for the characteristic instead of the 8 bits for real exponents from -16383 to +16384 can be represented. Scale factors range from 2^{-16383} to 2^{+16384} or approximately 10^{-4865} to 10^{+4865} . The characteristic is formed by adding 16384_{10} or $40,000_8$ to the exponent.

Note: Negative double precision data are complements of positive double precision data; however, WORD 2 and WORD 3 are only complemented and bit 17 of WORD 2 is the sign of the fraction.

D-33397
12/11/77-12/12/77

INPUT TAPE X-405 ON MS6
DATA INPUT 07 NF 8 FL 8 1 1

FILE	RECORD	LENGTH	3000BYTES					
(0)	204440000000	207464000000	211517000000	204740000000	201400000000	206616702436	204514343177	573077614105
(48)	203757354136	541043123277	541043123277	541043123277	541043123277	541043123277	202743670217	541043123277
(96)	212610045512	566227675115	572345244062	575060075343	201773206266	177531201227	177475552304	207433755432
(144)	541043123277	207620000000	541043123277	541043123277	172657260355	541043123277	212636210117	541043123277
(192)	541043123277	541043123277	541043123277	541043123277	541043123277	211675667173	541043123277	207620000000
(240)	202600000000	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277
(288)	541043123277	541043123277	204440000000	207464000000	211517000000	204740000000	204500000000	205531666213
(336)	204514244127	573102343277	203755244113	541043123277	541043123277	541043123277	541043123277	541043123277
(384)	202556701226	541043123277	212601370337	566241644045	573065744253	575157226557	202440477735	177710416053
(432)	177661060335	207534464716	541043123277	207620000000	541043123277	541043123277	173405245007	541043123277
(480)	212556540402	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	211624502557
(528)	541043123277	207620000000	202600000000	541043123277	541043123277	541043123277	541043123277	541043123277
(576)	541043123277	541043123277	541043123277	541043123277	204440000000	207464000000	211517000000	204740000000
(624)	205440000000	206652763554	204514133417	573105110043	203753115242	541043123277	541043123277	541043123277
(672)	541043123277	541043123277	202634020645	541043123277	212601157471	566215325150	573252562507	576302603240
(720)	202430241135	177403023756	176711026513	206440243211	541043123277	207620000000	541043123277	541043123277
(768)	172612375322	541043123277	212653505301	541043123277	541043123277	541043123277	541043123277	541043123277
(816)	541043123277	211673660254	541043123277	207620000000	202600000000	541043123277	541043123277	541043123277
(864)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	204440000000	207464000000
(912)	211517000000	204740000000	205660000000	205622030446	204514010616	573107672031	203750747413	541043123277
(960)	541043123277	541043123277	541043123277	541043123277	202575241545	541043123277	212625060672	566206274412
(1008)	572065176720	577111417525	202455301455	177637473042	176717247171	206516053721	541043123277	207620000000
(1056)	541043123277	541043123277	172654147143	541043123277	212652573550	541043123277	541043123277	541043123277
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FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ PERM	ERROR ZERO	SUMMARY B	SHORT	UNDEF.	INPUT #RECS.	RETRIES TOTAL#
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(2208)	206725024230	541043123277	205467057243	203700166632	541043123277	541043123277	541043123277	207620000000	
(2256)	236427200734	201620060450	541043123277	141552226644	211752612520	541043123277	541043123277	541043123277	
(2304)	541043123277	541043123277	541043123277	541043123277	541043123277	207504000000	201400000000	541043123277	
(2352)	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	541043123277	

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
				PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
8	24	25	3000	0	0	0	0	3	4

EOJ DUMP STOPPED AFTER FILE 8 # OF PERMANENT READ ERRORS 0

START TIME 03/16/79 16:03:18 STOP TIME 03/16/79 16:03:59