#298

AE-B

ION MASS SPECTROMETER DATA

66-044A-01A

1 tape

AE-B

Ion Mass Spectrum Data Tape

66-044A-01A

This data set has been restored. There was originally 1 9-track, 800 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on a 360 computer. The DR and DS number along with the corresponding D number and the time span is as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03619	DS03619	D17689	1	06/09/66 - 01/17/67

REQ. AGENT	RAND NO.	ACQ. AGENT
CMT	RC3208	RNH

AE-B

ION MASS SPECTROMETER DATA

66-044A-01A

This data set consists of 1 AE-B Ion Mass Spectrometer Data tape. The tape is 1600 BPI, 9 track, binary with 1 file. This tape was created on an IBM 360/75 computer. Listed below is the tape and its start and stop times.

D#	C#	TIME SPAN
D-17689	C-14538	June 9, 1966 - January 17, 1967

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : FILES

DATE: November 12, 1974

FROM : Virginia B. Zanner
Data Analysis Branch

SUBJECT: AE/B Ion Mass Spectrometer Data Final Quality Control

BACKGROUND

In preparing the final synoptic file of the AE-B Ion Mass Spectrometer Data, it was deemed desirable, so as to increase the reliability of the validation process through the use of human judgment, to scan printouts from the computer analysis output file (BHT#2) and to compare them, turnon by turnon and peak by peak, with the corresponding COM volt-edit display (vs. time) of sweep data and raw volt data for the spectrometer ion current spectra.

A combination of several factors, inadequately programmed tests, bypassing of existent tests in an effort to "make things run", and insufficient documentation on the tape library contents and provenance, to say nothing of old-fashioned human error, caused the inclusion in the AE/B orbital aspect files of a certain percentage of nonsensical location data. The same factors enabled this bad O/A data to slip through the analysis programs. Therefore, the final synoptic file of AE-B Ion Mass Spectrometer data known as BHT#2A contained a certain percentage of this bad O/A data. In addition, about 2% of the peak values were for unwanted (12, 16) or non-existent (0,*) masses. A third class of "bad" mass values resulted from the failure of the decom program to correctly detect the sweep flag changes, causing mass 4 to be labelled 25 and mass 1 to be labelled 6. All of these cases could be detected or corrected by simple programmed tests.

The most important deficiency in the BHT file, however, was the existence of missing or erroneous peak current values, resulting from the failure of the preliminary analysis program to correctly handle the data in the presence of disturbances such as noise, sun spikes, data dropouts and exaggerated oscillation. This, only the visual comparison of the analog display and printout could detect.

APPROACH

In cleaning up the BHT file, so as to present for archiving only verified data points, several steps were necessary:

1. Creation of BLKDBH

The original 7-track unblocked 7094 tape was filtered by a program BHLOC which eliminated those records containing impossible location data,

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converted longitudes to the 0° - 360° range and created a 9-track blocked tape BLKDBH on reel 11-686. This tape was then used for all further studies.

2. Program IPRINT, with several alternative outputs, was used to study the data file and accumulate statistics on various "error" conditions. The most useful of these outputs were:

a. A printout of errors only, i.e. records with unwanted masses, bad satellite velocity, negative density, and number of peaks per pass other than 6. (See Figure 1)

b. Average time relative to first mass 14 peak time for each mass peak, computed from those turn-ons with exactly 6 masses.

c. A listing in 6 peak per turn-on format with extra peaks to one side. (See Figure 2)

3. The listing from 2-c above was used to make a preliminary comparison of each printed peak value with the volt-edit plot microfilm display. Types of discrepancies were noted and correction cards were made up for any necessary changes.

4. In studying the data in this manner two programmable editing features were developed which made it possible to preserve as much original data as possible and minimize the change card entries. These included:

a. Time criteria for the selection of "correct" peak values.

b. Erroneous mass numbers resulting from failure to detect sweep flag changes proved unique and therefore translatable to proper values. In addition, it was discovered that a filter on VMAG (satellite velocity) was needed to complete the elimination of bad orbital data.

5. Special programming was needed to eliminate certain turn-ons or peak samples which caused the general program to blow in a unique fashion. A list was developed of turn-ons having only the second mass 14 and/or 16 peaks, in order to place the values in the correct slot in the fixed format output. This list is not necessarily comprehensive but contains those turn-ons which were noticed at time of checkout of the original 64 reels. During checkout of M1 reels (additional) it had been decided to eliminate those turn-ons with less than three data points since it is impossible to extrapolate the O/A data necessary to compute number density for added points, and therefore no such turn-ons were checked even though volt-edit film may exist.

6. Comparison of Volt-Edit Plots and Current Printout

Each plot was scanned for general agreement with the corresponding current values on the printout. For a complete set of 6 and only 6 peak values with a fairly clean plot, no reference to the conversion tables was necessary, this decision being based on a careful reading and conversion of half a dozen such cases. (See Figure 3)

For those passes with data dropouts, noise, sunpeaks, or exaggerated signal oscillation, a more careful scrutiny was called for, since such phenomena could have either obscured a peak to the analysis program which was readable by eye, have been interpreted as an erroneous or non-existent peak by the program, or obscured the baseline interpretation causing a more generalized effect on peak values in the area. (See Figure 4). In addition some data were completely off scale (Channel 9 saturated). All these obscuring conditions were noted in the form of flags.

7. The other type of corrections needed was the clean-up of apparent errors or malfunctions in previously entered corrections.

There were enough of the latter to suggest a most careful scrutiny of the present correction procedures at every step:

a. Proofreading of the cards punched from correction forms.

b. Scanning for sense which raised several questions resolved by the rereading of the film.

c. Scanning of the sorted cards for "duplicate" turn-ons, some of which turned out to be keypunch errors. Where true duplicates occurred, it was encouraging that the readings rarely varied.

d. Programmed check of data values against valid windows in conversion.

PROGRAM DESCRIPTION (See Appendix A for flow chart)

The N4DENS program developed reads the BLKDBH data, rejects turn-ons with unbelievable satellite velocity values (an indication of non-valid O/A), corrects mass values, rejects unwanted masses, chooses one value per mass occurrence basing the selection on relative time, interpolates missing O/A data where possible, inserts new values from correction cards, deletes bad values as flagged on correction cards, computes location codes and sets various quality indicators.

For those ion current values for which a satellite velocity has been validated, the program then computes number density, according to the following equations:

AE-B Current to Concentration Equations

Units: I_c (amperes) V (^{Vm}/sec)
n (ions/cm^3)

Mass 1

$$n = \frac{0.61 \quad Ic}{1.46\text{x}10^{-16}V + 6.16\text{x}10^{-19}V^3}$$

Mass 4

$$n = \frac{0.61 \quad Ic}{4.38\text{x}10^{-16}V + 7.40\text{x}10^{-18}V^3}$$

Mass 14

$$n = \frac{2.2 \quad Ic}{-2.19\text{x}10^{-16}V + 2.44\text{x}10^{-17}V^3}$$

Mass 16

$$n = \frac{2.2 \quad Ic}{-2.19\text{x}10^{-16}V + 2.78\text{x}10^{-17}V^3}$$

Various combinations of output may be selected by means of selection flags read in from the DATA5 file. They are:

IFL6 = 1 data base current and number density are printed out (See Figure 5)

2 both data base and error messages are printed

3 error messages only are printed (See Figure 6)

IFL8 = 1 data base, with location codes and quality indicators added, is written on FT08 on tape

3 no tape output

INPUTS

1. BLKDBH tape 11-686

```
//FT09F001  DD  DSN=BLKDBH,UNIT=2400-3,DISP=(OLD,KEEP),LABEL=(,SL,,IN),
                DCB=(RECFM=VBS,LRECL=92,BLKSIZE=27604,DEN=3)
```

Logical record (1 per peak reading) All words are REAL*4.

WORD NO.	CONTENTS	UNITS
1	Turn-on#	
2	Experiment number	
3	Mass	AMU
4	G1 - guard ring voltage	Volts
5	Vs - stopping voltage	Volts
6	Current	Amperes
7	Satellite velocity	Kilometers/second
8	Altitude	Kilometers
9*	B x Spin Axis	Degrees
10	Universal time	Seconds
11	Local time	Seconds
12*	Velocity Vector x Spin Axis	Degrees
13	Geographic Latitude	Degrees 1/
14	Geographic longitude	Degrees 2/
15	Magnetic latitude	Degrees 1/
16	Magnetic longitude	Degrees 2/
17*	Spin Axis x Sun	Degrees
18*	Theta	Degrees
19	McIlwain's parameter (L)	Earth Radii
20	Day of year	
21	Solar Zenigh angle	Degrees
22	Dip Latitude	Degrees

1/ + = North, - = South

2/ + = East

---

* Questionable accuracy; Do not use

2. EBCDIC input (See Figure 7)

//DATA5 DD *

RECORD	CONTENTS	
1	Header (72 alpha characters)	
2	'IFL6--8' (skipped)	
3	IFL6 in character 5:	IFL8 in character 8
	1 Density p.o.	1 data base out
	2 Density p.o. + errors	2 no FT08 output
	3 Error messages only	
4-23	Volt/Current conversion tables	
24-28	List of turnons lacking microfilm	
29-last	Correction cards (last card turn-on = 9999)	

CHARS.

1-4	Turn-on	
6	Sun spike	
7	Sat_1	
8	Sat_2	
9	Noise	Indicators 1 = present
10	Other	
16-18	Volts	Mass 14_1
19-20	Channel	
21-23	Volts	Mass 16_1
24-25	Channel	
26-28	Volts	Mass 4
29-30	Channel	
31-33	Volts	Mass 1
34-35	Channel	
36-38	Volts	Mass 14_2
39-40	Channel	
41-43	Volts	Mass 16_2
44-45	Channel	

OUTPUTS

1. BHDENS Tape 11-337

```
//FT08F001    DD    DSN=BHDENS,UNIT=2400-3,
                  DISP=(NEW,KEEP,LABEL=(,SL,,OUT),
                  DCB=(RECFM=VBS,LRECL=692,BLKSIZE=27684,DEN=3),
                  VOL=SER=11337
```

Logical record (1 per turnon) contains:

BASOUT(23,6),KFLAGS(15),OUTPUT(10),MSS(9)

BASOUT [REAL*4] contains for each of the six possible peaks the 22 words of the BLKDBH input record plus number density. Missing fields are filled with 99999.

	# BASOUT (1, J)		
	2	Turn-on #	
	3	Exp number	
	4	Mass	AMU
	5	G-1	V
	6	VS	V
*	7	Current	amp
*	8	VMag	km/sec
	9	Alt	km
*	10	BxSA	•
*	11	Univ time	sec
	12	Local time	(recomputed from UT + GLong)
*	13	VVxSA	•
*	14	Glat	•
*	15	Glong	•
*	16	Mlat	•
	17	Mlong	•
	18	SAxS	•
*	19	Theta	•
	20	McIlwain's parameter(L)	Earth radii
*	21	Day	•
	22	Solar zenith angle	•
	23	Dip Lat	•
		Density	ions/cc

J:	1	2	3	4	5	6
MASS:	14	16	4	1	14	16
TREL:	0 sec	14 sec	76 sec	151 sec	205 sec	219 sec

#1-22 same as BHT#2

* Interpolated if possible

KFLAGS [ALL INTEGER *4] are as follows

(1) = KWAL	1 = verified	2 = not checked	3 = no film
(2) = NOA	number of original O/A values		
(3) = NOB	number of O/A values including interpolated		

OA Flags:

(4) = 14_1	
(5) = 16_1	0 = no value
(6) = 4_1	1 = original values from BH tape
(7) = 1	2 = interpolated from accepted points
(8) = 14_2	
(9) = 16_2	3 = interpolated from input points

Value Flags:

(10) = 14_1	
(11) = 16_1	0 = no value
(12) = 4_1	1 = original value
(13) = 1	2 = value from CORR card
(14) = 14_2	3 = not present on film
	4 = saturated (channel 9) - no value
(15) = 16_2	5 = new current value only (no OA to compute density)

OUTPUT [INTEGER *4] contains

WORD		
(1)	turn-on	
(2)	month	
(3)	local hour	(time/3600 +1)
(4)	altitude code	(alt/10)
(5)	Glat code	((Glat + 90)/10)
(6)	Glong code	(Glong/10 + 1)
(7)	Mlat code	((Mlat + 90)/10)
(8)	Mlong code	(Mlong / 10 + 1)
(9)	Day of year	
(10)	Local time * 1000 in hours	

MSS[INTEGER *4] contains the mass index numbers of the input records for the turn-on, in order as read with remaining positions filled with zeros.

2. Density printout lists

(See Figure 5 for sample printout)

3. Error messages (See Figure 6) are:

MERROR: unacceptable mass (input record skipped)

VELER: impossible satellite velocity (input record skipped)

NDERR: number density ≤ 0 (current and number density set to 0 before processing)

BAD CARD INPUT from CORR, i.e. outside the conversion table lists (value is not used)

COOKBOOK

DATA5 input to the program was prepared as follows:

1: 72-character header
2: (skipped)
3: col 5 IFL6
- 1: data base printout (Figure 5)
- 2: data base + error messages
- 3: error messages only (Figure 6)

col 8 IFL8
- 1: write revised data base
- 2: alternate tape output on FT08
- 3: no FT08 output

Records 4 to 23: (Deck CONTAB) Conversion tables for Volts to Current by channel. Last 2 items for each channel are minimum and maximum volts contained in the conversion table for that channel. Implicit volt values are steps of .05 v from .20 v to 1.00 v, steps of .1 v from 1.1 to 5.5 v and steps of 1.0 v from 6.0 v to 12.0 v. Table entries are corresponding current values with an implied exponent of -ch.

Records 24 to 28: (Deck NOMICR) List of turn-ons lacking microfilm. Last turn-on entered should be 9999.

Records 29 up: Correction cards (See Figure 8). Last turn-on # should be 9999.

PROGRAM MODIFICATIONS

If an alternate FT08 output is desired, the WRITE statement and FORMAT should be inserted at statement 999 and the end signal WRITE if desired at statement 888.

JCL MODIFICATIONS

If no FT08 is desired, replace data set name BHDENS with DUMMY. If alternate FT08 is requested replace with appropriate statement.

TIME ESTIMATE

H02H02 for Data base printout with or without FT08. H01H02 for error printout and no FT08.

Recommendations for Future Data Reduction Procedures Suggested by this Experience:

1. Programmed checks of numbers against valid "real world" limits wherever possible.

2. Refusal to by-pass the above validity checks for the expedient of "getting the data through" -- what gets through is too frequently garbage.

3. Limiting so-called manual reduction to reasonable expectations of the physical capacity of the human instrument. Tired eyes and stupefied brains tend to bypass validity checks also.

4. Where possible two heads are better than one -- both for data reading and proofreading.

5. Plan man-machine interaction into the system from the start. It will happen anyway at some stage so try to design procedures to make it as easy as possible. Utilize the talents of both in the optimum way. Program the computer to do the straightforward menial tasks of checking and conversion, but rather than expending a lot of effort to take care of every conceivable case, simply detect the non-nominal state and refer it back to the human computer for handling. This AE-B IMS analysis program with its "inverse" program capability was a good first step in this direction, but too few built-in checks were employed. The bad orbital data which rendered so many turn-ons unusable was produced from a combination of program and human deficiencies which made it standard procedure in generating the O/A tape to:

(1) Ignore on-line messages
(2) Use the "bypass" switch setting to continue processing, and
(3) Only change to a new minute vector tape when the program demanded it rather than for the correct turn-on number.

Item three would have been bad enough for early turn-ons where the end of a min vector tape was overlapped by refined data on the next tape but was rendered worse by the fact that the program checked for date only and extrapolated, sometimes hours from the last records read in. A simple limit check on location and velocity at some stage should have prevented such data from being introduced into the BHT file, and, noticed and complained about early enough by the "customers", might have induced the operating group to correct the O/A files.

The object of computer applications should be the production of valid results, not the use of computer time.

V. B. Zanner,
Data Analysis Branch

cc: P. H. Smith Code 626
H. Brinton, Code 621
R. Horowitz, Code 601

```
IEF285I    VOL SER NOS= K3SYS6.
IEF285I    SYS75065.T090833.RV000.YZJRJHA1.LODMOD          PASSED
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75065.T090833.SV000.YZJRJHA1.R0000221        SYSOUT
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75065.T090833.SV000.YZJRJHA1.R0000222        SYSOUT
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75065.T090833.RV000.YZJRJHA1.R0000223        DELETED
IEF285I    VOL SER NOS= K3SCR5.
IEF285I    SYS75065.T090833.RV000.YZJRJHA1.S0000224        SYSIN
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75065.T090833.RV000.YZJRJHA1.S0000224        DELETED
IEF285I    VOL SER NOS= K3SCR2.
IEF373I STEP /LINK     / START 75065.1205
IEF374I STEP /LINK     / STOP  75065.1206 CPU    0MIN 01.87SEC MAIN 130K LCS    0K
- STEP 01 -      RETURN CODE = 0000                                STEP TIME =      .21 MINS=(CPU=      .03,IO=      .18)
                                        IO IN SECS. DISK=    10.42,DRUM=      .56,TAPE=      .00,CELL=      .00,OTHR=      .18
     XXGO       EXEC PGM=*.LINK.SYSLMOD,COND=(4,LT),REGION=70K                    00000230
     XXFT05F001 DD  DDNAME=DATA5                                                  00000240
     XXFT06F001 DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE)         00000250
     IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
     XXFT07F001 DD SYSOUT=B,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80)                  00000260
     XXSYSPRINT DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE),        00000270
     IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
     XX              SPACE=(CYL,(0,1)),UNIT=(DISK,3)                              00000280
     //GO.FT08F001 DD UNIT=9TRACK,DISP=(OLD,KEEP),LABEL=(01,BLP,,IN),
     //         DCB=(BLKSIZE=32000,RECFM=U,DEN=3),
     //                VOL=SER=Z2104
     //GO.DATA5 DD *
     //
IEF236I ALLOC. FOR YZJRJHA1 GO
IEF237I 231    ALLOCATED TO PGM=*.DD
IEF237I 232    ALLOCATED TO FT05F001
IEF237I 332    ALLOCATED TO FT06F001
IEF237I 332    ALLOCATED TO FT07F001
IEF237I 332    ALLOCATED TO SYSPRINT
IEF237I 231    ALLOCATED TO SYSPRINT
IEF237I 232    ALLOCATED TO SYSPRINT
IEF237I 0C5    ALLOCATED TO FT08F001
```

RECORD 1 OF FILE 1
LENGTH = 27684 BYTES

6C240000	02840000	42D00000	41300000	41E0650A	C0161A30	423EF5EA	38372C37	417D5467	432F3A2C
423381E3	4514DBA0	44B80FF0	41482008	423C4B27	42C85BB6	423A5879	42FAC8C0	42547B28	431538EE
413F6A06	42A00000	42271D79	4239928B	44291D5C	42D00000	41300000	42100000	C0161A30	42385C8E
391F67A0	417D1BCB	43301583	42392DFF	4514DC80	44B98400	4210BBCB	423BD559	42C9D9A6	423A3390
42FC6CA0	4244BECB	4210B831	413EDC71	42A00000	422706AB	42395FCE	45143C86	42D00000	451869F0
41400000	451869F0	451869F0	3676382C	417C24D5	4333D66D	42346671	4514E060	44BF2310	C1185725
4239A91D	42CF9685	42394DFB	431032DC	42581991	427004D0	413BC887	451869F0	42226388	42386908
421881EF	42D00000	41300000	4110ED01	C0161A30	423DB565	375D7336	417AF1A8	43388E5A	423766D3
4514E510	44C520A0	41172F2E	4236CD82	42D5AA50	4237D262	4310AB00	4256C769	411254BD	413733F6
42A00000	4222D296	4236F1D6	435EC455	42D00000	41300000	41DF93C6	C0161A30	42434E90	38141A05
417A114C	433C08CE	42368E4E	4514E870	44C8CAA0	411C9C08	4234986D	42D9593B	42367A0A	4310F949
42533A3A	431667C3	413473BD	42A00000	422775DD	4235B3B5	44105D6D	42D00000	41300000	42100000
C0161A30	42434E90	3893B6BF	4179D494	433CFA9E	423BF191	4514E950	44C9B500	41BCFB39	4233FD22
42DA4450	4236161 1	43110D42	42516173	41BC7D33	41339391	42A00000	422797CE	42355795	4467E9CA
00000001	00000005	00000006	00000001	00000001	00000002	00000001	00000001	00000001	00000001
00000002	00000002	00000001	00000001	00000001	000000D0	00000006	0000000E	00000056	0000000E
00000015	0000000E	0000001B	000000A0	000035B7	00000003	00000004	00000001	00000005	00000006
00000000	00000000	00000000	00000001	02B40000	42D10000	41700000	41E0E5D1	C013AD24	4242F7DD
361C25C1	416B5FC0	437B3C9B	422B7CAE	43C3C000	44113150	4279748A	C23BA805	41549FBB	C2370B80
423A6263	4286FE53	427977FD	413E83B9	42A10000	428D21C5	C22FBCB5	42239090	42D10000	41700000
42100000	C013AD24	4242F7DD	361C25C1	416B8F98	437A613F	42255F7D	43C4A000	44123070	42531ABB
C23B4FE3	4164B2F6	C236E45A	423B6C34	428C72E9	42531C73	413E457B	42A10000	428D3196	C22F3CF7
421E1CF6	42D10000	41300000	4141C774	C013AD24	423D5E7A	37397D63	416C6798	437684F6	422AAA9C
43C87000	44166380	426C2610	C239AC85	41A84DDC	C23616FB	423FF31F	428D2E75	426C28EC	413CE0E5
42A10000	428D5372	C22FB0BE	42F814D8	42D10000	41300000	4110DF9B	C013AD24	423D5E7A	37BE7823
416D7401	4371C194	424A80EE	43CD2000	441B0310	41F05D25	C2377BC2	41F234FD	C234DE0E	424533DD
425C1D04	41EFE8C6	413AA5FC	42A10000	428D305D	C22F86AE	43E252B2	42D10000	41700000	41DEC8D1
C013AD24	4243381B	361C25C1	416E3C27	436E3B38	42512060	43D08000	441E1440	429D7348	C235C23A
42122F37	C233CF80	424B0D2	4276BC86	429D7BF3	4138B162	42A10000	428CE1E5	C22F55B7	422073FC
42D10000	41700000	42100000	C013AD24	4243381B	361C25C1	416E7105	436D4D2B	423910F1	43D16000

AE-B Ion Mass Spectrum Data
D-19689, C-14538
June 9, 1966 — January 17, 1967

441ED780	427720C5	C2354A71	4212F089	C23382F6	4249C746	428C310E	4277247C	41382509	42A10000
428CCB86	C22F4663	421B84C7	00000001	00000006	00000006	00000001	00000001	00000001	00000001
00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000001	000000D1	00000006
00000002	00000089	00000003	00000002	00000003	00000007	000000A1	000006BE	00000003	00000004
00000002	00000001	00000005	00000006	00000000	00000000	00000000	02B40000	42D30000	41700000
41E2F631	C014A384	4242FE0D	361C25C1	4174B0B7	4351FB46	427832E7	4429D100	442F7FB0	42A8F649
C2259C29	4160FAC1	C221FF81	4243D52E	426D1CEF	42BEFA73	412120B4	42A10000	42869EFE	C2281CC7
421AB0A9	42D30000	41700000	42100000	C014A384	4242FE0D	361C25C1	4174EC56	4350FD80	42654A59
4429DF00	442FF930	4298A580	C224F93F	41682E10	C221765D	42446DDE	42870E72	4298AD75	41203F11
42A10000	4286416F	C228016C	4216B4CF	42D30000	41300000	4141EB29	C014A384	423D65E6	3711D158
4175F4AC	434CA046	428062D6	442A1C00	44320270	428DF113	C2221D3E	4186D45D	C21F0996	4246FFE7
4258176B	42DA0C1F	411F13FA	42A10000	428461B3	C2276EE9	424167EA	42D30000	41300000	4110F238
C014A384	423D65E6	3825AFE8	41773487	434765BB	4257E98F	442A6700	44345560	4274DE1E	C21E8D12
41A97E49	C21BFA2B	4249F858	428B5172	4274E110	411D1A9B	42A10000	42823F6D	C2267057	4427E4A2
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451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0
451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  00000000  441A8A00  451869F0  42100000
451869F0  451869F0  00000000  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0
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441A8A00  41700000  41416272  C01273E8  423D9350  361C25C1  4184B043  4312BDE7  421AE165  4498EF00
4457FA80  42AD8DB4  C1C17C18  43122B6F  C099628B  4062C9BB  425DA75C  42ADDDF8  41118D09  42110000
42528C31  411742E7  41517F8E  441A8A00  451869F0  41100000  451869F0  451869F0  371738BF  451869F0
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451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  451869F0  00000000  441A8A00
451869F0  42100000  451869F0  451869F0  00000000  451869F0  451869F0  451869F0  451869F0  451869F0
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451869F0  00000000  00000001  00000001  00000001  00000000  00000000  00000001  00000000  00000000
00000000  00000005  00000004  00000001  00000005  00000003  00000003  00001A8A  00000001  00000007
0000001D  00000007  0000001E  00000009  00000001  00000011  00001870  00000002  00000000  00000000
00000000  00000000  00000000  00000000  00000000  00000000  02B40000  441A8F00  41700000  41E47A4E
C0118374  424307EB  369DA040  416BFFCF  4377D241  428B9C9F  44D77E00  44E0F620  4259A9A5  42351630
41A19C55  423595E1  425F4E9A  425D65BF  4259640D  4133C0E2  42110000  4257A866  42319DC9  42C329AF
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41700000  41E75BCE  C0118374  424303F0  364D67D5  41696332  4383B5BC  4261349C  44D84C00  44E9EFD0
42745F08  422E212C  4212D0DE  422D3DB8  42644B64  425652DD  42F3487C  4126DBD2  42110000  425A557B
4229F74E  42686D80  441A8F00  451869F0  42100000  451869F0  451869F0  37335E80  451869F0  451869F0
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451869F0  451869F0  451869F0  451869F0  00000000  00000001  00000002  00000001  00000000
00000000  00000000  00000001  00000000  00000001  00000005  00000005  00000005  00000002  00000005
00001A8F  00000001  00000011  000000C9  0000000D  00000002  0000000D  0000000A  00000011  00003FBC
00000003  00000005  00000000  00000000  00000000  00000000  00000000  00000000  00000000
```

107 RECORDS IN FILE 1 OF TAPE

```
IEF142I - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS75065.T090833.RV000.YZJRJHA1.LODMOD        PASSED
IEF285I   VOL SER NOS= K3SCR2.
IEF285I   SYS75065.T090833.RV000.YZJRJHA1.S0000229      SYSIN
IEF285I   VOL SER NOS= K3SCR3.
IEF285I   SYS75065.T090833.RV000.YZJRJHA1.S0000229      DELETED
IEF285I   VOL SER NOS= K3SCR3.
IEF285I   SYS75065.T090833.SV000.YZJRJHA1.R0000225      SYSOUT
IEF285I   VOL SER NOS= K3SCR5.
IEF285I   SYS75065.T090833.SV000.YZJRJHA1.R0000226      DELETED
IEF285I   VOL SER NOS= K3SCR5.
IEF285I   SYS75065.T090833.SV000.YZJRJHA1.R0000227      DELETED
IEF285I   VOL SER NOS= K3SCR5.
IEF285I   SYS75065.T090833.RV000.YZJRJHA1.R0000228      KEPT
IEF285I   VOL SER NOS= Z2104 .
IEF280E K 0C5,Z2104 ,YZJRJHA1,GO
IEF373I STEP /GO       / START 75065.1206
IEF374I STEP /GO       / STOP  75065.1228 CPU    0MIN 13.42SEC MAIN 186K LCS    0K
- STEP 02 -      RETURN CODE = 0000                          STEP TIME =      .35 MINS=(CPU=      .22,IO=      .13)
                                IO IN SECS. DISK=     5.40,DRUM=      .36,TAPE=     2.23,CELL=      .00,OTHR=      .13
```