

#475

VOYAGER 1 + 2

IRIS REDUCED DATA RECORDS

(RDE) FOR JUPITER

77-084A-03A

77-076A-03A

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

VOYAGER 2

JUPITER IRIS MERGED DATA ON TAPES

77-076A-03A PSPA-00051

This data set has been restored. There were originally six 9-track, 6250 BPI tapes written in Binary. There are six restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on an IBM 360 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004233	DS004233	D021240	1	06/21/79 - 06/27/79
DR004234	DS004234	D021241✓	1	06/27/79 - 06/30/79
DR004235	DS004235	D021242	1	06/30/79 - 07/06/79
DR004236	DS004236	D021243	1	07/06/79 - 07/10/79
DR004237	DS004237	D021244	1	07/10/79 - 07/17/79
DR004238	DS004238	D021245	1	07/17/79 - 07/18/79

VOYAGER 1

JUPITER IRIS MERGED DATA

77-084A-03A PSPA-00186

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY NINE 9-TRACK, 6250 BPI TAPES, WRITTEN IN BINARY. THERE ARE NINE RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004117	DS004117	D041986	1	02/02/79 - 02/08/79
DR004118	DS004118	D041987	1	02/08/79 - 02/15/79
DR004119	DS004119	D041988	1	02/15/79 - 02/20/79
DR004120	DS004120	D041989	1	02/20/79 - 02/22/79
DR004121	DS004121	D041990	1	02/23/79 - 02/28/79
DR004122	DS004122	D041991	1	03/01/79 - 03/04/79
DR004123	DS004123	D041992	1	03/04/79 - 03/08/79
DR004124	DS004124	D041993	1	03/08/79 - 03/14/79
DR004125	DS004125	D041994	1	03/14/79 - 03/15/79

VOYAGER 1 & 2

IRIS REDUCED DATA RECORDS (RDR)

FOR JUPITER

77-084A-03A

77-076A-03A

This data set catalog consists of 9 Voyager 1 and 6 Voyager 2 data tapes. They are 6250 BPI, Binary, 9 track and are single filed. The tapes were created on an IBM 360 computer.

Data set and time spans are as follows:

77-084A-03A Voyager 1

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-41986	C-21246	02/02/79 - 02/08/79
D-41987	C-21247	02/08/79 - 02/15/79
D-41988	C-21248	02/15/79 - 02/20/79
D-41989	C-21249	02/20/79 - 02/22/79
D-41990	C-21250	02/23/79 - 02/28/79
D-41991	C-21251	03/01/79 - 03/04/79
D-41992	C-21252	03/04/79 - 03/08/79
D-41993	C-21253	03/08/79 - 03/14/79
D-41994	C-21254	03/14/79 - 03/15/79

77-076A-03A Voyager 2

D-41995	C-21240	06/21/79 - 06/27/79
D-41996	C-21241	06/27/79 - 06/30/79
D-41997	C-21242	06/30/79 - 07/06/79
D-41998	C-21243	07/06/79 - 07/10/79

VOYAGER 2 (Con't)

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-41999	C-21244	7/10/79 - 7/17/79
D-42000	C-21245	7/17/79 - 7/18/79

Voyager Infrared Interferometer Spectrometer and
Radiometer (IRIS) - Documentation for
Reduced Data Records (RDR) for Jupiter

VOYAGER 1 and 2

77-084A-03A
77-076A-03A

October 1980

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 DESCRIPTION

1. INTRODUCTION

On August 20 and September 5, 1977, two Voyager spacecraft were launched from the Eastern Test Range. Voyager 1 passed Jupiter on March 5 and Voyager 2 on July 9, 1979. Both Voyager spacecraft carried infrared instruments, known as IRIS, which contain a Michelson interferometer for the infrared (4-55 μm) and a single channel radiometer for the visible and near infrared (0.33-2 μm). A large number of spectra and radiometer data were recorded and are now available to the scientific community.

The purpose of this report is to provide the user of the IRIS data with the necessary information on the IRIS data base for scientific investigations and to document the final calibrated infrared data contained in the reduced data records (RDR). For these reasons this document contains chapters on the instrument, data processing and calibration, trajectory information, RDR tape format and criteria for selection of spectra from the RDR magnetic tapes.

The magnetic tapes contain the calibrated thermal emission spectra, radiometer output, housekeeping data, as well as navigation and pointing information. The tapes, called reduced data records (RDR), are available to the scientific community through the National Space Science Data Center, GSFC, Greenbelt, MD 20771.

2. INSTRUMENT DESCRIPTION

The Voyager infrared investigation uses a Michelson interferometer with a 4.3 cm^{-1} spectral resolution in the $180\text{--}2500\text{ cm}^{-1}$ (4-55 μm) range and a single-channel radiometer for the visible and near infrared, $5000\text{--}30000\text{ cm}^{-1}$ (.33-2 μm). Both devices share a Cassegrain telescope with a 50 cm diameter primary mirror and a 0.25° field of view. A description of the instrument has been published in Applied Optics (Hanel et al., 1980). Table 1 summarizes parameters of the Voyager IRIS.

The on-board calibration of the interferometer uses deep space, which is for this purpose considered a blackbody of zero degree and the internal

instrument temperature as reference points. The radiometer is calibrated by viewing occasionally a diffuser plate of known radiometric property to reflect ~~sun~~ light into the instrument. In addition to the instrument paper, a paper on "Albedo, Internal Heat, and Energy Balance of Jupiter" by Hanel et al. (1981) contains a detailed description of the calibration concept of the interferometer and radiometer, including the spectral response of the radiometer and the diffuser plate. Preprints of this paper and reprints of the instrument paper are available on request.

For reference the noise equivalent spectral radiance (NESR), the radiance level yielding unity signal ^{for a target spectrum} to noise, is shown in Figs. ~~1~~¹ and 2 for Voyager 1 and 2, respectively.

3. DATA REDUCTION AND CALIBRATION

3.1 Interferometer

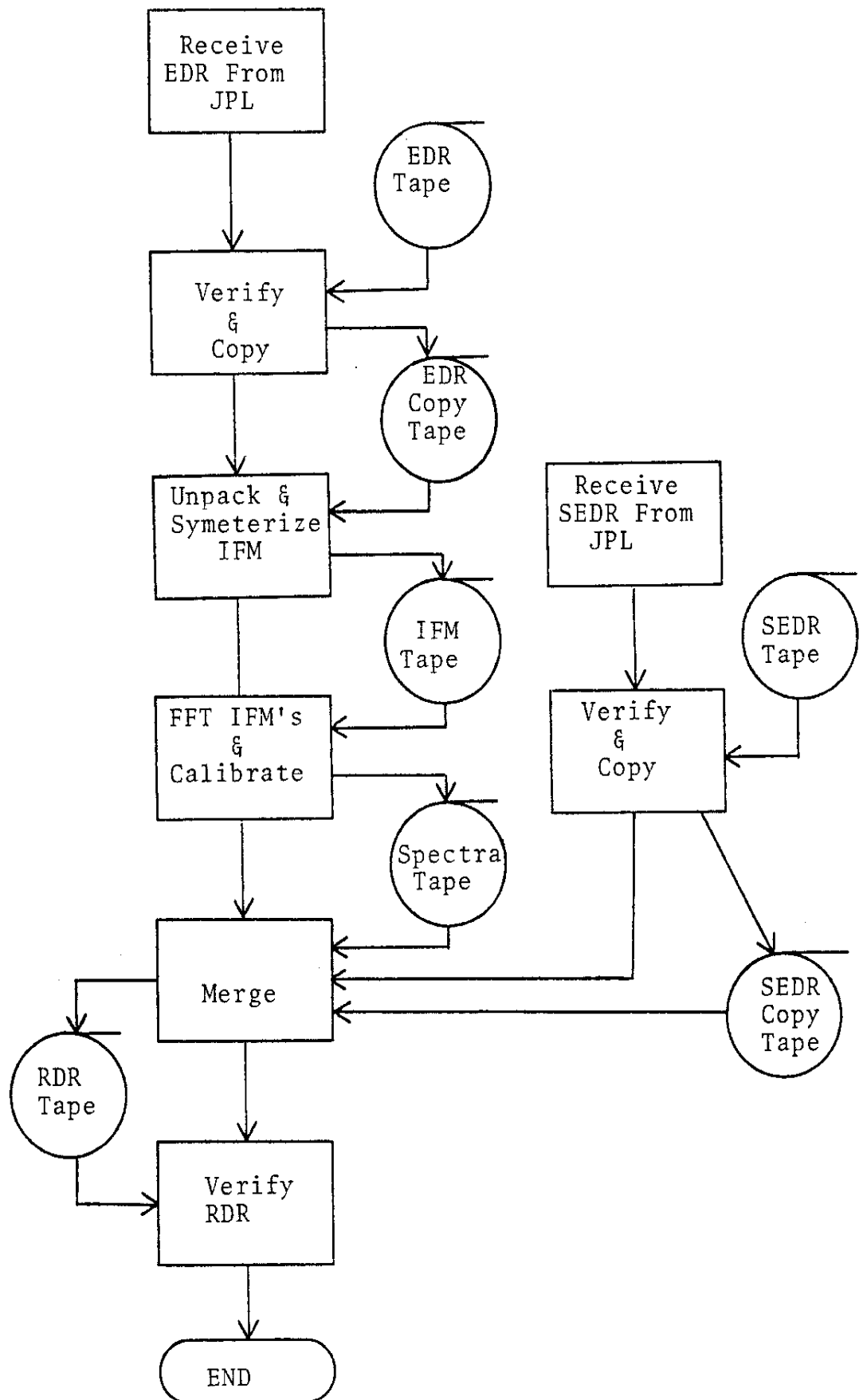
The data reduction of the IRIS ^{data was divided into} ~~interferograms~~ consisted of two major steps. The first consisted of symmetrizing the interferograms to correct for the fact that they are not sampled at zero path difference and to remove the asymmetry due to residual dispersion in the beamsplitter and compensator. Deep space calibration data was then selected from the symmetrized interferograms to calculate the spectral response. The second ~~major~~ step consisted of apodizing and cosine transforming the symmetrized interferograms and calibrating them with the spectral response. The observed power spectrum C can be written as

$$C(\nu) = r(\nu) (B_i(\nu) - B_T(\nu))$$

where ν is wavenumber, r is the spectral response, B_i is the instrument ^{in instrument temperature (200K)} radiance at ~~200K~~, and B_T is the target radiance. While observing deep space, the instrument sees only itself as a 200°K blackbody since all elements of the instrument are carefully controlled at 200°K.

Figure 11

IRIS Data Processing Procedure Flow-Chart



ation in the high-energy particle environment expected inside the Jovian magnetosphere. The effort was successful; the IRIS has performed well throughout the high-level flux periods of the mission.

Finally, all of this had to be achieved within minimum weight and power allocations, requiring a delicate balance between performance, reliability, and available resources.

In the fall of 1975, an advanced version of the Voyager IRIS, called MIRIS (Modified IRIS), was on the drawing board for a possible Jupiter-Uranus mission to be launched in 1979. This Jupiter-Uranus mission never materialized; instead, the Voyager 2 spacecraft was given the option of a Uranus fly-by after the Saturn encounter. To enhance the scientific return from this option, an attempt was made to accelerate the construction of MIRIS for inclusion in the Voyager 1977 mission. MIRIS was fully qualified for spaceflight in September 1977, too late, unfortunately, to participate in Voyager. The interferometer discussed in this paper (IRIS) was launched on board Voyager 2 on 20 Aug. 1977 and on Voyager 1 on 5 Sept. 1977. The Voyager 1 fly-by of Jupiter occurred on 5 Mar. 1979, and the Voyager 2 fly-by took place on 9 July 1979. Both spacecraft are now on their way to Saturn and will arrive on 13 Nov. 1980 and 26 Aug. 1981, respectively. Voyager 2 has the option of continuing for a fly-by of Uranus to occur on 30 Jan. 1986.

II. Overview of Instrument

The Voyager IRIS combines a Michelson interferometer for measurements in the middle-IR region and a radiometer for measurements in the visible and near-IR range, sharing a 50-cm diam telescope. The physical layout, seen in Fig. 1, shows the major components: the optics, the electronics, and the power

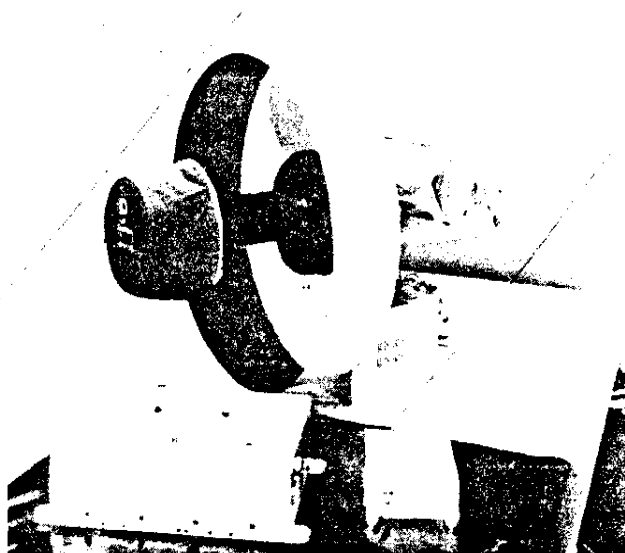


Fig. 1. Three modules of the Voyager IRIS. The optics module, center, contains a 50-cm diam telescope and is mounted in this picture on a metal block labeled *MJS IRIS*. The IR and reference interferometers and the radiometer, mounted behind the primary mirror, are covered with thermal blankets. All the actual flight blankets were black and electrically conducting. The telescope secondary mirror, also obscured by thermal blankets, is mounted at the end of the cylinder protruding from the center of the primary mirror. The small 20° off-axis solar calibration mirror and its reflection in the primary mirror can be seen protruding downward from the center hub of the primary. The small package in the right foreground is the power supply, and the larger enclosure on the left is the electronics module.

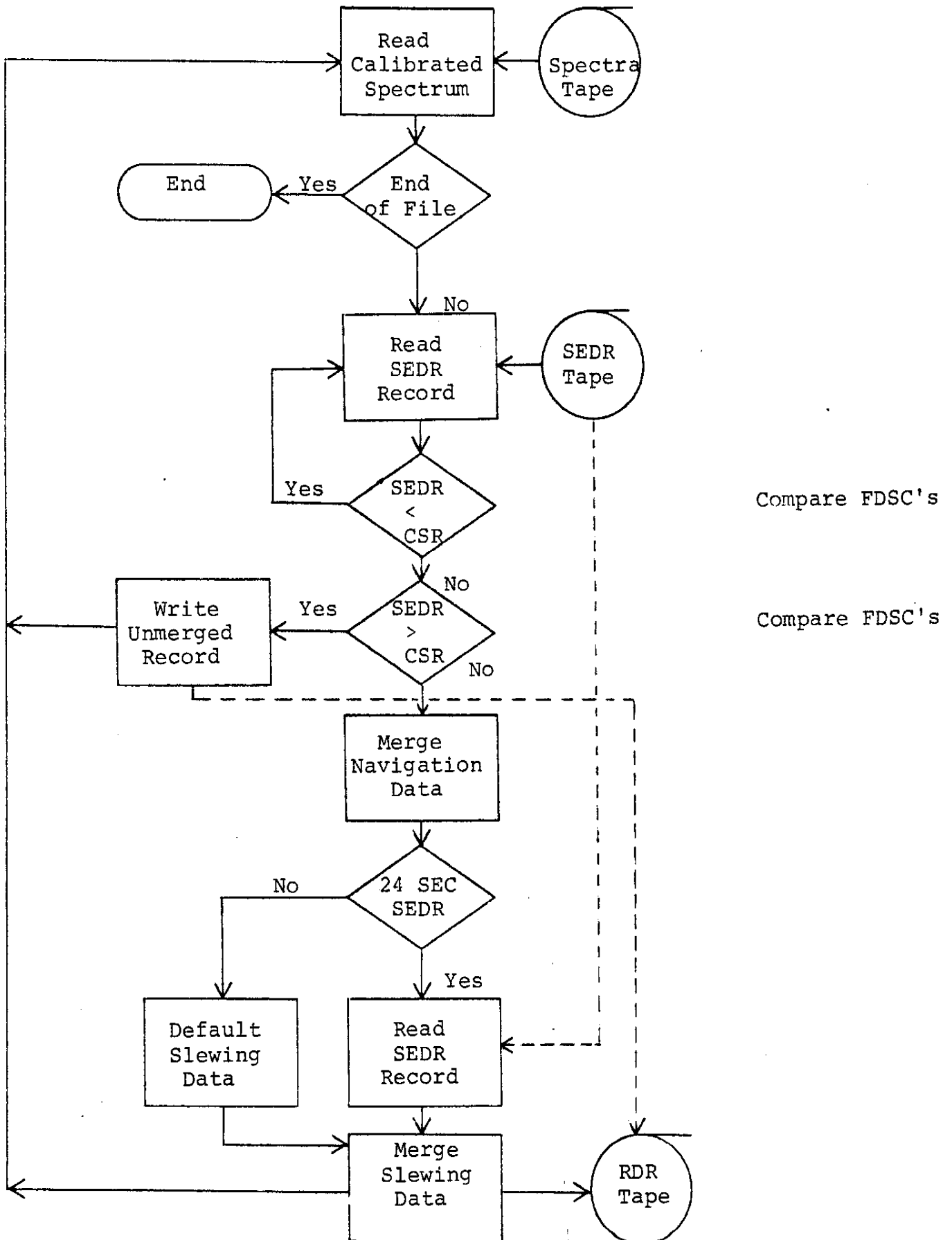
Table I. Parameters of the Voyager IR Instrument (IRIS)

Spectral Range	
Interferometer	180–2500 cm^{-1} (4–55 μm)
Radiometer	5000–30000 cm^{-1} (0.33–2 μm)
Spectral resolution of interferometer (apodized)	4.3 cm^{-1}
Field of view	
Telescope	0.25°
Interferometer	4.28°
Aperture: (including obscuration)	
Telescope	2026 cm^2
Interferometer	8.56 cm^2
Noise equivalent spectral radiance	at 500 cm^{-1} at 2000 cm^{-1}
	$5 \times 10^{-9} \text{ W cm}^{-2} \text{ sr}^{-1} / \text{cm}^{-1}$ $1.5 \times 10^{-8} \text{ W cm}^{-2} \text{ sr}^{-1} / \text{cm}^{-1}$
Operating temperature, optics	200 $\pm$ 0.5 K
Temperature stability	0.1 K/day
Interferogram time	45.6 sec
Mirror travel	0.158 cm
Mirror velocity	$3.51 \times 10^{-3} \text{ cm sec}^{-1}$
Reference wavelength	0.58525 μm
Data band	1.2–18 Hz
Words per interferogram	3648
Data word rate	80 words sec^{-1}
Analog-to-digital converter	13 bits
Word length after digital filtering	14 bits
Data bit rate	1120 bits sec^{-1}
Weight	18.4 kg
Power dissipation (average)	14.0 W

TABLE I

Figure 12

IRIS Merge Procedure Flow-Chart



5. REDUCED DATA RECORD (RDR) TAPE GENERATION

5.1 Data Processing Procedure

The IRIS information was received from JPL in the form of three types of magnetic tapes:

- (1) Experimenter Data Record (EDR) tapes containing the raw telemetry and engineering data,
- (2) Fixed Instrument Supplementary Experimenter (FI-SEDR) tapes containing spacecraft navigation data, and
- (3) Scan Platform Supplementary Experimenter (SP-SEDR) tapes containing instrument pointing data.

The procedure used to process each EDR tape is illustrated in Fig. 11. The details for the unpacking, the symmetrization of the interferogram (IFM), the Fourier transformation, and the calibration for each record is contained in Section 3. The details of the merging procedure are described in Section 5.2.

Each IRIS RDR tape contains IRIS records in ascending FDSC order. Appendix C contains the RDR tape summary by FDSC. Appendix D contains a detailed description of the physical tape format and the word content of each RDR. Example FORTRAN programs are included to illustrate the way in which specific data elements can be accessed or calculated.

5.2 Merge Procedure

After the EDR tapes have been processed into Calibrated Spectra Record (CSR) tapes, it is necessary to merge the navigation/pointing data into the header of each CSR to produce the Reduced Data Records (RDR's). Fig. 12 illustrates this merge procedure. (The term SEDR is used to mean both FI-SEDR and SP-SEDR, since the procedure is identical in both cases.)

The SEDR tapes were generated by JPL at either 48 second (one per observation) or 24 second (two per observation) intervals. The 48 second SEDR's correspond to line-count 350 (near the peak of the IFM). The 24 second SEDR's correspond to line-counts 350 and 750 (end of the observation). In cases where 24 second SEDR's are available, it is possible to determine whether any slewing of the scan platform took place during the observation. This happens from time-to-time when the scan platform is controlled by the non-IRIS experiments. Slewing can be detected by noting differences between the Q5 (center of field-of-view) latitude/longitude, and/or emission angle in the two SEDR records for the observation. Provision was made in the IRIS RDR to store this information (header word 123 contains the latitude/longitude, and word 124 contains the emission angle for the SEDR at line count 750). Where only 48 second SEDR data was available, these values have been set equal to the normal header values.

6. DATA USERS GENERAL INFORMATION

6.1 Common RDR Words

For the convenience of the user, some of the IRIS RDR words most often used are summarized in Table 2. The Q~~5~~⁵ point is at the center of the IRIS field of view (FOV).

Table 2

IRIS			
Word	Bytes	Format	Description
8	17-20	I*4	Starting FDSC MOD 2 ¹⁶
9	21-24	I*4	Starting FDSC MOD 2 ⁶⁰
38	85-86	I*2	Reject Flag
99	341-344	I*4	Picture Body ID
102	353-356	R*4	Range, S/C to picture body
112	393-396	R*4	Solar elevation angle for Q5 point
113	397-400	R*4	Emission angle for Q5 point
116	409-412	R*4	Local hour angle for Q5 point
127	453-456	I*4	System B ^{III} latitude and longitude for Q5 point

The complete description of the RDR words is given in Appendix D.

6.2 Data Quality Criteria

Several levels of quality indicators should be considered before acceptance of an RDR for data analysis:

a) interferometer data quality - RDR word 38 is set to a code, depending on the quality of the interferogram with

- 0 = okay
- 1 = too many spikes in IFM
- 2 = missing data in IFM
- 3 = zero peak in IFM
- 4 = no IFM data, only radiometer

For standard analysis^{e3}, codes 2, 3, and 4 ^{imply} IFM data is not useable.

b) interferometer smear

During non-IRIS science links the scan platform may slew considerably during an IRIS 48 second integration period. This slewing can be detected by noting differences in the latitude/longitude of the Q5 (center of the field-of-view) and/or emission angle between the 24 and 48 second SEDRs. In most cases (see section 5.2), this information is stored in the header portion of each RDR. When selecting spectra for analysis, care should be taken to insure that observations with pronounced smear are not included. This information is available for days 54-74 for Voyager I and for days 181-191 for Voyager II.

6.3 Known RDR Peculiarities

Despite all attempts to establish a clean, contiguous data base, some discontinuities and errors remain. Some of the known peculiarities and inconsistencies are:

1) A few FDSC counts are missing both interferometer and radiometer data and contain only the scan platform information.

(by JPL)
v

2) Mislabelling on the SEDR tapes shows incorrect identification of some picture bodies. Known misidentifications are:

- a) FDSC 16398.40 - 16399.22 are deep space spectra, not Callisto.
- b) FDSC 16308.14 - 16308.35 are Ganymede spectra, not Callisto.
- c) FDSC 16274.31 - 16274.39 are Io spectra, not Callisto.

3) There are time periods where data is not contiguous. Gaps in the data occur for a variety of reasons, such as bad weather inhibiting ground reception, no scan platform data, etc.

APPENDIX A

TIME-RANGE SUMMARY

Voyager 1 Time Summary

Scet	Relative Time (DAY)	Relative Time (HRS.)	FDSC	Range (10 ⁶ KM)	Range (R _J)	ASD	1/F
24.5	-40	-940	15196.55	39.70	556.7	.10	.84
34.5	-30	-720	15496.55	30.91	433.1	.13	1.08
39.5	-25	-600	15639.25	26.13	366.2	.16	1.27
39.9	-24	-596	15653.25	25.70	360.4	.17	1.29
44.5	-20	-480	15789.25	21.40	299.9	.19	1.56
49.5	-15	-360	15939.25	16.50	231.2	.25	2.02
54.5	-10	-240	16089.24	11.40	159.9	.36	2.93
55.5	- 9	-216	16119.24	10.38	145.6	.39	3.22
56.5	- 8	-192	16149.24	9.36	131.2	.44	3.57
57.5	- 7	-168	16179.24	8.33	116.7	.49	4.02
59.5	- 6	-144	16209.24	7.28	102.1	.60	4.60
59.5	- 5	-120	16239.24	6.22	87.2	.66	5.40
60.6	- 4	- 96	16269.24	5.13	71.9	.80	6.56
61.5	- 3	- 72	16299.24	4.02	56.4	1.02	8.40
62.5	- 2	- 48	16329.24	2.94	41.2	1.43	11.57
62.75	-1.75	- 42	16336.54	2.56	35.9	1.60	13.33
63.00	-1.50	- 36	16344.24	2.25	31.6	1.82	15.20
63.25	-1.25	- 30	16351.54	1.94	27.1	2.12	17.89
63.50	-1.00	- 24	16359.24	1.61	22.6	2.54	21.57
63.75	- .75	- 18	16366.54	1.27	17.9	3.21	27.59
64.00	- .50	- 12	16374.24	.93	13.0	4.43	38.86
64.25	- .25	- 6	16381.54	.57	8.0	7.20	66.35

Voyager 1 Time Summary

Scet	Relative Time (DAY)	Relative Time (HRS)	FDSC	Range (10 ⁶ KM)	Range (R _J)	ASD	1/F
64.50	0.0	0.0	16389.24	.35	4.90	11.77	119.10
64.75	+ .25	+ 6	16396.54	.57	8.00	7.20	65.97
65.00	+ .50	+ 12	16404.24	.93	13.00	4.43	38.86
65.25	+ .75	+ 18	16411.54	1.27	17.90	3.21	27.52
65.50	+1.00	+ 24	16419.24	1.61	22.60	2.54	21.53
65.75	+1.25	+ 30	16426.54	1.93	27.10	2.12	17.83
66.00	+1.50	+ 36	16434.24	2.25	31.60	1.82	15.21
66.25	+1.75	+ 42	16441.54	2.56	35.90	1.60	13.33
66.50	+2.00	+ 48	16449.24	2.86	40.10	1.43	11.92
67.50	+3.00	+ 72	16479.24	4.02	56.40	1.02	8.40
68.00	+4.00	+ 96	16509.24	4.96	69.50	.80	6.79
69.50	+5.00	+120	16539.24	6.23	87.20	.69	5.40
70.50	+6.00	+144	16569.24	7.28	102.10	.56	4.60
71.50	+7.00	+168	16599.24	8.34	116.70	.50	4.02
72.50	+8.00	+192	16629.24	9.19	128.80	.44	3.64
73.50	+9.00	+216	16659.24	10.35	145.10	.39	3.22
74.30	+10.00	+236	16685.31	11.28	158.10	.36	2.96
74.50	+10.00	+240	16689.25	11.41	160.00	.35	2.93
79.50	+15.00	+360	16839.25	16.41	230.00	.25	2.03
84.50	+20.00	+480	16989.25	21.32	298.90	.19	1.56
89.50	+25.00	+600	17039.25	26.12	366.20	.16	1.27
94.50	+30.00	+720	17289.25	30.91	433.10	.13	1.08
04.50	+40.00	+940	17589.25	39.80	557.80	.10	.84

Voyager 2 Time Summary

Sec	Relative Time (DAY)	Relative Time (HRS)	FDSC	Range (10 ⁶ KM)	Range (R _J)	ASD	1/F
50.90	-40	-940	19459.30	30.61	428.90	.13	1.09
60.90	-30	-720	19759.30	24.13	338.20	.17	1.38
65.90	-25	-600	19909.30	20.70	290.20	.20	1.61
70.90	-20	-480	20059.30	16.80	235.50	.24	1.98
72.90	-18	-436	20119.30	15.35	215.20	.30	2.17
75.90	-15	-360	20209.30	13.10	184.00	.31	2.54
80.90	-10	-240	20359.30	9.25	129.70	.40	3.61
81.90	- 9	-216	20389.30	8.45	118.40	.48	3.96
82.90	- 8	-192	20419.30	7.66	107.30	.53	4.38
83.90	- 7	-168	20449.30	6.83	95.70	.60	4.91
84.90	- 6	-144	20479.30	6.01	84.20	.68	5.59
85.80	- 5	-120	20509.30	5.15	72.20	.80	6.53
86.90	- 4	- 96	20534.30	4.29	60.10	.95	7.87
87.90	- 3	- 72	20569.30	3.37	47.20	1.20	10.07
88.90	- 2	- 48	20599.30	2.42	33.90	1.70	14.14
89.20	-1.75	- 42	20607.00	2.18	30.60	1.90	15.71
89.40	-1.50	- 36	20614.30	1.94	27.20	2.10	17.75
89.60	-1.25	- 30	20622.00	1.68	23.50	2.40	20.67
89.90	-1.00	- 24	20629.30	1.43	20.00	2.80	24.48
90.20	- .75	- 18	20637.00	1.19	16.70	3.40	29.66
90.40	- .50	- 12	20644.30	.96	13.50	4.20	37.21
90.60	- .25	- 6	20652.00	.78	10.90	5.30	46.98
90.95	0.0	0	20659.30	.72	10.12	5.73	51.57
91.00	+ .25	+ 6	20667.00	.78	10.90	5.30	46.98

Voyager 2 Time Summary

ce	Relative Time (DAY)	Relative Time (HRS)	FDSC	Range (10 ⁶ KM)	Range (R _J)	ASD	1/F
91.40	+ .50	+ 12	20674.30	.96	13.50	4.24	37.21
91.60	+ .75	+ 18	20682.00	1.19	16.70	3.43	29.66
91.90	+1.00	+ 24	20689.30	1.43	20.00	2.85	24.48
92.20	+1.25	+ 30	20697.00	1.68	23.50	2.43	20.67
92.40	+1.50	+ 36	20704.30	1.93	27.10	2.11	17.82
92.60	+1.75	+ 40	20712.00	2.18	30.60	1.95	15.71
92.90	+2.00	+ 48	20719.30	2.42	33.90	1.69	14.14
93.90	+3.00	+ 72	20749.30	3.37	47.20	1.21	10.07
94.90	+4.00	+ 96	20779.30	4.27	59.90	.97	7.89
95.90	+5.00	+120	20809.30	5.14	72.00	.80	6.55
96.90	+6.00	+144	20839.30	5.99	84.20	.68	5.59
97.90	+7.00	+168	20869.30	6.81	95.50	.60	4.92
98.90	+8.00	+192	20899.30	7.63	107.00	.53	4.39
99.90	+9.00	+216	20929.30	8.43	118.20	.48	3.97
00.90	+10.00	+240	20959.30	9.25	129.70	.44	3.61
15.90	+15.00	+360	21109.30	13.10	184.00	.31	2.54
20.90	+20.00	+480	21259.30	16.90	236.90	.24	1.97
25.90	+25.00	+600	21409.30	20.60	289.00	.20	1.62
30.90	+30.00	+720	21559.30	24.20	339.20	.17	1.38
40.90	+40.00	+940	21859.30	30.90	433.10	.13	1.08

APPENDIX C

VOYAGER 1 AND 2 RDR TAPE SUMMARY
FDSC COUNT - TAPE ID

Voyager 1

<u>Days</u>	<u>FDSC</u>				
	<u>Start</u>	<u>Finish</u>	<u>Tape ID</u>	<u>File #</u>	<u># of Records</u>
33-39	15473.37	15653.31	VGR101	1	10027
39-46	15653.33	15863.33	VGR102	1	11716
46-51	15863.34	16013.32	VGR103	1	8604
51-53	16013.33	16074.16	VGR104	1	3339
54-59	16074.19	16254.08	VGR105	1	10733
60-63	16254.19	16359.18	VGR106	1	5932 ✓
63-67	16359.21	16485.55 ⁵⁴	VGR107	1	74143
67-73	16485.59	16673.23 ²⁵	VGR108	1	11006
73-74	16673.30	16685.29	VGR109	1	<u>720</u>
Total					69491

Voyager 2

<u>Days</u>	<u>FDSC</u>		<u>Tape ID</u>	<u>File #</u>	<u># of Records</u>
	<u>Start</u>	<u>Finish</u>			
172-178	20115.41	20300.20	VGR201	1	10319
178-181	20300.21	20390.19	VGR202	1	5361
181-187	20390.21	20570.20	VGR203	1	10661
187-191	20570.21	20689.51	VGR204	1	7002
191-198	20691.12	20900.20	VGR205	1	12430
198-199	20900.21	20930.35	VGR206	1	<u>1798</u>
Total					47,571

APPENDIX D

REDUCED DATA RECORD (RDR) TAPE DESCRIPTION AND FORMAT

Each standard magnetic tape contains complete IRIS records (header and data) in ascending FDSC order. All records can be read using a standard FORTRAN unformatted READ statement:

DIMENSION RECORD (2894)

READ (1) RECORD

The first 500 bytes of each record are the header information which is a mix of full-word read values, full and half-word integers, ^{and individual bytes.} The remaining 11,076 bytes are radiance data as a function of wavenumber, and are all real values.

[^]
full-word,

The following illustrates graphically a IRIS RDR record:

<-----11,576 Bytes----->

<---500 Bytes---><-----11,076 Bytes----->

<---125 Words---><----- 2,769 Words----->

Header

2769 Radiance Values (in ascending wave no. order)
└───┴───>

A word is defined as 4 bytes (32 bits) ,

The physical tape description and corresponding IBM JCL is given in Table D1.

Table D1. RDR Tape Description

		IBM JCL
Tracks:	9	Unit = 9 ^{9TRACK} Track
Density:	6250 BPI	Den = 4
Label:	No Label	Label = (,NL)
Parity:	Odd [†]	
Record Format:	Blocked, Variable Length*	^R RECFM = VBS
Record Size:	11,580 Bytes**	LRECL = 11580
Block Size:	11,584 Bytes***	BLKSIZE = 11584

*Although the record format specifies variable length records, all records on a tape are the same length (record size). VBS format was used to conform to IBM FORTRAN unformatted READ/ WRITE requirements.

**Includes standard IBM 4 byte segment descriptor word.

***Includes standard IBM 4 byte block descriptor word.

The contents of a RDR record are described in Table D2. The column headings are:

Column 1:	Field Number	a consecutive numbering of field quantities for reference.
Column 2:	Byte Location	contains the relative byte number of each word in the header
Column 3:	Format	contains the FORTRAN descriptor for the format of each word, i.e., R*4 = real variable of length, 4 bytes.
Column 4:	FI-SEDR Word	contains the origin of the navigation data from the fixed instrument SEDR data. NOTE: None of this data was placed into the IRIS header.
Column 5:	SP-SEDR Word	contains the origin of the navigation data from the Scan Platform SEDR data. These words are referenced to Appendix E.
Column 6:	Description	a description of the field quantities.

The abbreviations in Table D2 are defined as:

HK = Housekeeping.

IFM = Interferogram

PB = Picture Body. The body (planet or satellite) that the IRIS instrument is pointing at at the time of observation.

CB = Central Body. The planetary body at the center of the planet-moon system (i.e., Jupiter, Saturn).

Q5 = Defines intercept point of IRIS field of view.

S/C = Spacecraft.

ASD = Angular Semi-Diameter. The angle subtended from a view from the spacecraft when projected onto the radius of the observed body.

Jupiter System 1: A coordinate system of reference which rotates at the same rate as the observed middle latitude features on Jupiter.

Jupiter System 3: A coordinate system of reference which rotates at the same rate as Jupiter's magnetic field.

The arrangement of the IRIS field of view is illustrated in Appendix E.

Table D2. RDR Record Contents

FIELD NO.	BYTE LOCATION	FORMAT WORD	FI-SEDR WORD	SP-SEDR WORD	DESCRIPTION
1	1-4	I*4			Tape Creation Date (YY MM DD)
2	5-6	I*2			Record Type: Always 3
3	7-8	I*2			Calibration File Serial #
4	9-10	I*2			Source EDR Tape # -N = Preliminary +N = Final
5	11-12	I*2			Source Fixed Instrument SEDR Tape # 0 = None -N = Predict +N = Actual
6	13-14	I*2			Source Footprint SEDR Tape # 0 = None -N = Predict +N = Actual
7	15-16	I*2			# of Records in Average - Always 1
8	17-20	I*4			Starting FDSC Mod 2^{16}
9	21-24	I*4			Starting FDSC Mod 60
10	25-28	I*4			Ending FDSC Mod 2^{16}
11	29-32	I*4			Ending FDSC Mod 60
12	33-34	I*2			Spacecraft ID 1 = Voyager 1 2 = Voyager 2
13	35-36	I*2			Data Mode from EDR Header: (10 = GS3 etc.)
14	37-38	I*2			Playback Flag 0 = Real Time 1 = Playback
15	39-40	I*2			Earth Received Time: Year
16	41-42	I*2			Earth Received Time: Day
17	43-44	I*2			Earth Received Time: Hour
18	45-46	I*2			Earth Received Time: Minutes
19	47-48	I*2			Earth Received Time: Seconds
20	49-50	I*2			Data Source as in EDR (1 = Real Time etc.)
21	51-52	I*2			Golay Encoded Flag 0 = No 1 = Yes
22	53-54	I*2			Phase Angle Serial #

23	55-56	I*2	Spacecraft Event Time: Year
24	57-58	I*2	Spacecraft Event Time: Day
25	59-60	I*2	Spacecraft Event Time: Hour
26	61-62	I*2	Spacecraft Event Time: Minute
27	63-64	I*2	Spacecraft Event Time: Second
28	65-66	I*2	0 = Input by NORT File 1 = Input by EDR Proc (Scet Flag)
29	67-68	I*2	DSN Configuration 8 Bits (Low Order) as in EDR
30	69-70	I*2	DSN Station # 8 Bits (Low Order) as in EDR
31	71-72	I*2	Estimated Bit Error Count from EDR
32	73-74	I*2	
33	75-76	I*2	DQSW Sums over 10 Groups for
34	77-78	I*2	Bits 4, 3, 1, 0 (See EDR DQSW)
35	79-80	I*2	
36	81-82	I*2	# of Minor Frames, Golay Corrected
37	83-84	I*2	# of Minor Frames Containing Missing Data
38	85-86	I*2	Reject Code: 0 = OK 1 = Too Many Spikes 2 = Missing Data 3 = Zero Peak 4 = No IFM Present
39	87-88	I*2	# of Spikes, Corrected
40	89-90	I*2	Golay Bit Error Summation from EDR
41	91-92	I*2	Radiometer Data Present 0 = No 1 = Yes
42	93-96	R*4	Integrated Radiometer from HK (Watts)
43	97-100	R*4	
44	100-104	R*4	
45	105-108	R*4	
46	109-112	R*4	Averages over HK Groups of
47	113-116	R*4	9 Temperature Channels
48	117-120	R*4	
49	121-124	R*4	
0	125-128	R*4	
51	129-132	R*4	
52	133	L*1	Lock 1st Group HK LHK1 and LHK2

53	134	L*1	Lock 2nd Group HK LHK3 and LHK4
54	135	L*1	Neon Delay Lock ND1, ND2, ND3, or ND4
55	136	L*1	Motor Position Lock Control MP1, MP2, MP3 or MP4
56	137-140	R*4	
57	141-144	R*4	
58	145-148	R*4	
59	149-152	R*4	8 Radiometer Samples Normal Gain (Watts)
60	153-156	R*4	
61	157-160	R*4	
62	161-164	R*4	
63	165-168	R*4	
64	169-172	R*4	
65	173-176	R*4	
66	177-180	R*4	
67	181-184	R*4	8 Radiometer Samples High Gain (Watts)
68	185-188	R*4	
69	189-192	R*4	
70	193-196	R*4	
71	197-200	R*4	
72	201-204	R*4	Maximum of 8 Neon Samples (Volts)
73	205-208	R*4	Minimum of 8 Neon Samples (Volts)
74	209-212	R*4	Average Residual Square Difference of Phase Fit
75	213-216	R*4	Average 22 Micron Brightness Temperature (400-500 cm^{-1})
76	217-220	R*4	Average 5 Micron Brightness Temperature (2000-2050 cm^{-1})
77	221-224	R*4	Near IR Radiance (V I - Not Used) (V II - Integrated 3600-3800 cm^{-1})
78	225	L*1	
79	226	L*1	
80	227	L*1	HK Present 4 Groups
81	228	L*1	
82	231-232	I*2	
83	233-234	I*2	EDR Subheader Without Spares
84	235-236	I*2	

85	237-240	R*4		X
86	241-244	R*4		Y
87	245-248	R*4		Z Cartesian State of Spacecraft
88	249-252	R*4		$\bar{X}$ Jupiter Centered (System 1)
89	253-256	R*4		$\dot{Y}$
90	257-260	R*4		$\dot{Z}$
91	261-264	R*4		X
92	265-268	R*4		Y Cartesian State of Spacecraft
93	269-272	R*4		Z Jupiter Centered, Jupiter Mean Orbit and Prime
94	273-276	R*4		$\bar{X}$ Meridian in Sun Direction
95	277-280	R*4		$\dot{Y}$
96	281-284	R*4		$\dot{Z}$
97	285-288	R*4	157	Jupiter Latitude of Spacecraft
98	289-292	R*4	158	Jupiter Longitude of Spacecraft (System 1)
99	293-296	R*4	159	Jupiter Longitude of Spacecraft (System 3)
100	297-316	R*4		Reserved for Saturn
101	317-320	R*4	2	CB Id.
102	321-324	R*4	36	Range CB $\rightarrow$ 0
103	325-328	R*4	176 40	Range S/C $\rightarrow$ CB
104	329-332	R*4	184	Angle $\angle$ CB - 0 - S/C (Deg)
105	333-336	R*4	186	Angle $\angle$ 0 - CB - S/C (Deg)
106	337-340	R*4	239	Time Relative to Periapsis
107	341-344	R*4	2	PB Id. IF PB is CB, PB = 0
108	345-348	R*4	37	Range, PB $\rightarrow$ 0
109	349-352	R*4	40	Range, S/C $\rightarrow$ CB
110	353-356	R*4	41	Range, S/C $\rightarrow$ PB
111	357-360	R*4	71	Range, S/C $\rightarrow$ PB Tangency Point
112	361-364	R*4	42	S/C Altitude Above PB
113	365-368	R*4	43	PB Sub Solar Pt. Latitude
114	369-372	R*4	44	PB Sub Solar Pt. Longitude
115	373-376	R*4	45	PB Sub-S/C Pt. Lat.
116	377-380	R*4	46	PB Sub-S/C Pt. Long.
117	381-384	R*4	47	S/C Phase $\angle$
118	385-388	R*4	48	PB ASD
119	389-392	R*4	70	Optic Axis
120	393-396	R*4	74	PB QS Pt., Solar Incidence Angle

121	397-400	R*4	75	PB QS Pt., Emission Angle
122	401-404	R*4	76	PB QS Pt., Phase Angle
123	405-408	R*4	77	PB QS Pt., Sun Azimuth Angle
124	409-412	R*4	82	PB QS Pt., Local Time (hr.)
125	413-416	R*4		CB Lat. of PB
126	417-420	R*4		CB Long. of PB (Jup. Sys. I)
127	421-424	R*4		CB Long. of PB (Jup. Sys. III)
128	425-428	R*4		
129	429-432	R*4		Cartesian State of PB (Jup. Sys. I)
130	433-436	R*4		
131	437-440	I*4	145/146	Q1 Lat. & Long., System 3
132	441-444	I*4	147/148	Q2 Lat. & Long., System 3
133	445-448	I*4	149/150	Q3 Lat. & Long., System 3
134	449-452	I*4	151/152	Q4 Lat. & Long., System 3
135	453-456	I*4	72/73	Q5 Lat. & Long., System 3
136	457-460	I*4	153/154	Q6 Lat. & Long., System 3
137	461-464	I*4	155/156	Q7 Lat. & Long., System 3
138	465-468	I*4	157/158	Q8 Lat. & Long., System 3
139	469-472	I*4	159/160	Q9 Lat. & Long., System 3
140	473-476	R*4		Integrated Radiance Across Spectrum
141	477-480	R*4		Starting Wave # (cm^{-1}), always 150.18 cm^{-1}
142	481-484	R*4		Wave # Spacing (cm^{-1}), always 1.41 cm^{-1} <i>1.59057</i>
143	489-486	I*2		# of Data Points, always 2769
144	487-488	I*2		Scan Platform in Motion Flag - Not Used
145	489-492	R*4		Line 750 - Emission Angle
146	493-496	I*4		Line 750 - Q5 Point (Optic Axis) Latitude, Longitude in packed integer format
147	497-500			Spare
148	501-504	R*4		Radiance Value for 1st Wave Number (Always 150.18 cm^{-1} ($\text{W}/\text{cm}^2/\text{sr}/\text{cm}^{-1}$))

.49 505-508 R*4

Radiance Value for 2nd Wave Number (Always
151.57 cm^{-1})

. . .
. . .
. . .
. . .
. . .
. . .

2916 11573-11576 R*4

Radiance Value for Last Wave Number (Always
3999.11 cm^{-1})

The following example depicts one way to identify individual RDR field quantities:

ALL CAPS!
 Logical*1 ^{BYTE}Byte
 Integer*2 I2VAL
 Integer*4 I4VAL
 Real*4 Record, Rad, Header
 Dimension Record (2894), Byte (500), I2VAL (250), I4VAL (125),
 A Header (125), RAD (2769)
 Equivalence (Record (1), Header (1)),
 A# (Header (1), Byte (1), I2VAL (1), I4VAL (1)),
 FB (Record (126), RAD (1))

A must appear to left of other lines

Each data element can then be addressed simply by using the variable name associated with its type.

Since radiances only are stored in the data portion of the record (i.e., no associated wavenumber), the corresponding wavenumber must be computed using the 3 header words:

ALL CAPS	Real*4 Word → 120	Starting Wave No.
	Real*4 Word → 121	Wave No. Spacing
	Integer*2 Word → 243	No. of Data Points

The following is one way to calculate and store these values for use with their corresponding radiances, using the above data definition statements to head the program:

ALL CAPS

```

  Dimension Wave (2769)
  Wave (1) = Record (120)
  ← DWN = Record (121)
  ← N = I2VAL (243)
  DO 100 I = 2,N
  Wave (I) = Float (I-1)*wave + DWN
  100 100 Continue
  
```

DWNT WAVE(1)

[The number of data points (N) will always be 2769.]

IEF2351	SYS1.FORTSSP	KEPT	DDNAME=SYSLIB -6	0 EXCPS
IEF2851	VOL SER NOS= K3ITL5.			
IEF2851	SYS2.COBLIR	KEPT	DDNAME=SYSLIB -7	0 EXCPS
IEF2851	VOL SFR NOS= M2SYS1.			
IEF2851	SYS1.ALGLIB	KEPT	DDNAME=SYSLIB -8	0 EXCPS
IEF2851	VOL SER NOS= K3SYS2.			
IEF2851	SYS80357.T083513.RV000.YZRWPBR1.LQDMCD	PASSED	DDNAME=SYSLMOD	29 EXCPS
IEF2851	VOL SER NOS= K3SCR5.			
IEF2851	SYS80357.T083513.SV000.YZRWPBR1.R0000191	SYSOUT	DDNAME=SYSPRINT	2 EXCPS
IEF2851	VOL SER NOS= K3SCR2.			
IEF2851	SYS80357.T083513.SV000.YZRWPBR1.R0000192	SYSOUT	DDNAME=SYSTEM	1 EXCPS
IEF2851	VOL SER NOS= K3SCR5.			
IEF2851	SYS80357.T083513.RV000.YZRWPBR1.R0000193	DELETED	DDNAME=SYSUT1	24 EXCPS
IEF2851	VOL SER NOS= K3SCR4.			
IEF2851	SYS80357.T083513.RV000.YZRWPBR1.S0000194	SYSIN	DDNAME=SYSLIN -1	3 EXCPS
IEF2851	VOL SER NOS= K3SCR2.			
IEF2851	SYS80357.T083513.RV000.YZRWPBR1.S0000194	DELETED	DDNAME=SYSLIN -1	3 EXCPS
IEF2851	VOL SER NOS= K3SCR2.			
IEF2851	SYS80357.T083513.SV000.YZRWPBR1.R0000195	DELETED	DDNAME=SYSABEND	0 EXCPS
IEF2851	VOL SFR NOS= K3SCR2.			

IEF3731 STEP /LINK / START 80357.1648
 IEF3741 STEP /LINK / STOP 80357.1649 CPU 0MIN 00.87SEC MAIN 130K LCS OK
 - STEP 01 - RETURN CODE = 0000 STEP TIME = .19 MINS=(CPU=.01,IO=.19)

- SURCHARGES=(DRIVES ALOC=000,TAPE MOUNTS=000,CORE=000,PAPER=000,PRIORITY=0000)SECS.
 XXGO EXEC PGM=*,LINK,SYSLMOD,COND=(4,LT),REGION=70K 00000260
 XXFT05F001 DD DDNAME=DATA5 00000270
 XXFT06F001 DD SYSCUT=6OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=6BLKSIZE) 00000280
 IEF6531 SUBSTITUTION JCL = SYSCUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
 XXFT07F001 DD SYSCUT=8,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80) 00000290
 XXSYSPRINT DD SYSCUT=6OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=6BLKSIZE), 00000300
 IEF6531 SUBSTITUTION JCL = SYSCUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
 XX SPACE=(CYL,(0,1)),UNIT=(DISK,3) 00000310
 XXSYSUDUMP DD SYSCUT=A,SPACE=(CYL,(0,5)) 00000320
 //GC.FT08F001 DD UNIT=6250,DISP=(CLD,KEEP),LABEL=(01,BLP,,IN),
 // DCB=(BLKSIZE=32600,RECFM=U,DEN=4),
 // VOL=SER=JJ0038
 //GC.DAT5 DD *

IEF2361 ALLOC. FOR YZRWPBR1 GD
 IEF2371 336 ALLOCATED TO PGM=*.DD
 IEF2371 336 ALLOCATED TO FT05F001
 IEF2371 237 ALLOCATED TO FT06F001
 IEF2371 232 ALLOCATED TO FT07F001
 IEF2371 237 ALLOCATED TO SYSPRINT
 IEF2371 232 ALLOCATED TO SYSPRINT
 IEF2371 235 ALLOCATED TO SYSPRINT
 IEF2371 336 ALLOCATED TO SYSUDUMP
 IEF2371 492 ALLOCATED TO FT08F001

Tape Generation Data

RECORD 1 OF FILE 1
 LENGTH = 11584 BYTES

*Compare to Doc
 FDSC for DDDMMYY*

Voyager 1

*D-419862
 2/02/79-1/08/79*

20400000	203C0000	000C382E	00030094	00A40000	00760001	00003C71	00000025	00003C71	00000025
0001000A	0000004F	00220000	00010017	00000000	0002004F	00210017	00010009	00010009	007A0000
00000000	00000000	00000000	00000000	00000000	38B8DE99	42C81890	42C8A3E4	42C806A0	42C83D60
42C7C98A	42C7E150	42C7C5E0	42C7C250	4311E560	01010000	38BCFDA7	38BCFDA7	38BCFDA7	38BCFDA7
38BCFDA7	38BCFDA7	38BCFDA7	38BCFDA7	38B89D8C	38B89D8C	38B89D8C	38B89D8C	38B89D8C	38B89D8C
38B89D8C	38B89D8C	0000000A	00000006	3C95D7B1	42652DCE	42C855B8	00000000	01010101	04290848
42000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	482F143A	471E0B86	00000000	00000000	00000000	00000000	482F143A	00000000
471E0B86	4710FC20	471DFA19	40A77148	4250076A	41333448	42689237	4218A864	40213DBE	4011F175
4211A003	421B5109	429CC18E	425B2CB0	42B04E9F	00000000	00000000	00000000	00000000	00000000
00000000	77359400	D9AC7938	EA5CE1DC	77359400	F61C7068	FCEAF14C	000AC057	08BB0A2A	0A4FEC77
3DE02D74	42562CCF	41163F87	0AD10AAC	F61C7068	C2457418	C23B60E4	3C58AD5E	EA7E8100	BC3BB65E
BCFFD020	BD184778	BD1CEC18	00000000	00000000	BD16CCAB	BC807B8E	BC39C153	BC125E3F	3FEAF3D0
3C19369C	3C1473C9	3C12912B	3C14EC32	3C145D18	3C109ACF	3BD02010	38B1R590	38B2BD60	38C54950
38D17CA0	38CD2000	38C28470	38C18230	38C6AC40	38C7B180	38C82790	38CAF130	38C20BA0	3EAC8390
389F3630	38A749C0	38B92C80	38C6C8A0	38CEAE60	38D5A8A0	38DAC000	38DCAE50	38DBEB70	38DB8E50
38DC1B40	38DAEE80	38D56D00	38CBABCO	38C09770	38BA0000	38C029C0	38CE0300	38DA7130	38DF94A0
38DF08D0	38E014A0	38E1D1F0	38E3F040	38F3F260	38DFEE60	38D757B0	38CF64D0	38C9C500	38C8B5D0
38D1AED0	38D8DBD0	38DF2DD0	38F122C0	38E2A350	38F2D770	38F19EE0	38E0A6F0	38E035E0	38DDE230

3BD96940	3BD5A290	3BD2F990	3BD0CF00	3BD17CD0	3BD630F0	3BD AF080	3BD C3430	3BD A70A0	3BD 78F80
3BD52F40	3BD40C60	3BD30730	3BD15420	3BDFE390	3BDFC740	3BDCD970	3BDCACB80	3BDC4E470	3BDC937E0
3BC75230	3BC50C10	3BC35850	3BC165A0	3B8EA090	3B8C6120	3B8B2340	3B895F00	3B869A40	3B846E70
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3B395024 3B368B8C 3B234748 3A72C46E 3A375946 3AB4E6F5 3B271321 3B37B745 3B2312D6 BB127DCC
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3B30214E 3B22119A 3B21EC91 3ABEF497 BB1F28CA BB1288FD BB21F1E2 3B2B74E3 3AE65687 3A3FFD3E
BA18AFFF BB1030A2 BA67BD79 3A6BFB8B BB11F535 9B271AA4 3B21F1E2 3B2B74E3 3AE65687 3A3FFD3E
BB418022 BB238759 3B14F1CB 3B34ACE3 3B27CB86 3A200F12 BB1F6818 BB17190A 3B134896 3B1E98C7
3A616FDC 3A50B879 3B1492FA 3ADE2AB4 3A346E3E BA42C7D5 BB179C0F BAF3078C 3B23A89 3B3E2FB
3B32F61F 3B341026 3B3EB874 3B34379A 3B278F17 3B2886D0 BB18585 3B285F3F 3A79D2E9 BB1DBEC4
BB186EA7 331409BE 3B42EB80 3B49CB8E 3B28281B 3A1D72F6 BA7A47EF E924997D 3AC8D119 3B3264CA

3853E8C1	3B34B1AC	BA7EC9BD	BB148E7D	BA588041	BAFE63DF	BB255E86	BB321C3E	BB3CF4A9	BB31AE93
3A48607F	3B3EA5FA	3B448093	3B1B9A8A	BA143534	3A48BE5F	3B1C09F5	3B143288	BA4042AF	BB11DF47
3A278439	3B3ABF49	3B634886	3B4E4447	3B21A988	3B13C780	3B1C32DD	3B25AC0E	3B2E0524	3B2655CD
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3B465B05	3B5D6D40	3B36C831	3A98BD0C	BA4EF5B3	3B1098A2	3B36AF0F	3B499ABF	3B3FF360	3B2670F6
3A2CEAEF	BB17DE66	BB199BF4	BB21C0E9	BB3DAE1E	BB3B8825	BB10FB62	3AA8E69D	3AB7E328	3B156FF2
3326910C	3B2D878B	3B3324A8	3B343999	3B1D2EC9	BAE239D2	BB34AA3C	BB3C2E9D	BB196CF0	3B147CEF
3B1CC943	3A32B6F5	EA748C3E	3AAF28A5	3B16FF4C	3AC1D209				

10027 RECORDS IN FILE 1 OF TAPE

```

IEF1421 - STEP WAS EXECUTED - COND CODE 0000
IEF2851 SYS80357.T083513.RV000.YZFWPBR1.LODMOD PASSED DDNAME=PGM=*.DD 0 EXCPS
IEF2851 VOL SER NOS= K3SCR5.
IEF2851 SYS80357.T083513.RV000.YZFWPBR1.S0000201 SYSIN DDNAME=FT05F001 2 EXCPS
IEF2851 VOL SER NOS= K3SCR2. DDNAME=FT05F001 2 EXCPS
IEF2851 SYS80357.T083513.RV000.YZFWPBR1.S0000201 DELETED DDNAME=FT06F001 5 EXCPS
IEF2851 VOL SER NOS= K3SCR4. DDNAME=FT07F001 0 EXCPS
IEF2851 SYS80357.T083513.SV000.YZFWPBR1.R0000196 SYSOUT DDNAME=SYSPRINT 0 EXCPS
IEF2851 VOL SER NOS= K3SCR3. DDNAME=SYSUDUMP 0 EXCPS
IEF2851 SYS80357.T083513.SV000.YZFWPBR1.R0000198 DELETED DDNAME=FT08F001 20.058 EXCPS
IEF2851 VOL SER NOS= K3SCR4.
IEF2851 SYS80357.T083513.SV000.YZFWPBR1.R0000199 DELETED
IEF2851 VOL SER NOS= K3SCR5.
IEF2851 SYS80357.T083513.RV000.YZFWPBR1.R0000200 KEPT
IEF2851 VOL SER NOS= JJ0038.
IEF2851 K 492.JJ0038.YZFWPBR1.GD
IEF3731 STEP /GO / START 80357.1649
IEF3741 STEP /GO / STOP 80357.1659 CPU 0MIN 43.12SEC MAIN 186K LCS OK
- STEP 02 - RETURN CODE = 0000 STEP TIME = 4.09 MINS=(CPU=.71,IO=3.38)
- SURCHARGES=(DRIVES ALOC=000,TAPE MOUNTS=000,CORE=000,PAPER=000,PRIORITY=00000)SECS. TOTAL STP TIME= 4.09 MINS.
IEF2851 SYS80357.T083513.RV000.YZFWPBR1.LODMOD DELETED
IEF2851 VOL SER NOS= K3SCR5.
IEF3751 JOB /YZFWPBR1/ START 80357.1648
IEF3761 JOB /YZFWPBR1/ STOP 80357.1659 CPU 0MIN 43.99SEC
- SYSTEM=FEL21.8F (04-01-79) K3
- JOB 0325- TIME=16.59.25.60 DATE=12-22-80
TOTAL TIME = 4.30 MINS=(CPU=.73,IO=3.57)
- SURCHARGES=(DRIVES ALOC=000,TAPE MOUNTS=000,CORE=000,PAPER=000,PRIORITY=00000)SECS. TOTAL JOB TIME= 4.30 MINS.
THERE WERE 01 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE WAS 00.0 MINUTES.

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0A59C0 D201D230 D4344110 D22058F0 D40405EF D213A060 D23447F0 C2C09204 A0079500
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0A5A00 0049D504 A000D450 4770C24A 9601D049 47F0C24A 92C2A005 12774770 C2549620
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*K.K.M...K...OM...K...K...OB... *
*...B...OCU...OB...B... *
*...N...M...B...OB...B...B... *
*...B...B...B...B...B... *
*...B...B...B...B...B... *
*...O...K...K...K...K...OG... *
*...M...OB...F...H...H... *
*...BY...B...OH... *
*...M...LY...C...OB...C... *
*...CL...C...K...K... *
*K.K.M.K.K.M...K...OM...B... *
*K...C...C...K...C... *
*K...OC...C...K...OC...C... *
*...OC...C...C...OH...3...K... *
*...OB...M...CK...M...CL...CK...OH... *
*K...OC...A...B... *
*H...OH...A...D...OD...D... *
*...K...F...OH... *
*...D...K... *
*...CL...M...D...CK...O... *
*D...M...CL...CK... *
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*...A...D...K...LY... *
*...F...OH...LY...F... *
*...E...E...OE... *
*...E...D...LY... *
*E...H...LY...OH...OF... *
*...O...O... *
*...O...M...3...O... *
*R.O...L...3...LA...L... *
*3...L...K...O... *
*T.O...O...O... *
*B...M...E...LO...W...F...K... *
*M.K...M.K...K...J...C...F...K... *
*J...S...F...K...J.C.P...F...K...J... *
*...O...OE...LO...X...F... *
*G...GG...H...X...F...OI...OI...X... *
*E...OK...OA...G...GG...H...OF...O... *
*G...F...OG... *
*...G...G...K...K...K... *
*K.K...K...K...OM...K...K... *
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*...I.N...M...H...O... *
*M.K...H...O...H... *
*...M.OI...J...M...M... *
*H...H...M.K.J.J... *

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0A5300	40008000	41330001	41440001	4770C10E	06308930	00025893	C4501833	4140C454
0A5320	95FF4000	4780C176	D5004000	B0004780	C1564133	00054144	000147F0	C1384123
0A5340	C456D204	C32F2000	12994780	C2B85829	00001222	4770C18C	58290004	07F2D24F
0A5360	A000B000	18FF58DC	000858ED	000C980C	D01407FE	D207C334	9000D21D	C33EC540
0A5380	41990008	48490000	41448000	48290002	4130C33E	4420C318	41990004	95FF9000
0A53A0	4780C1D0	41332001	48490000	41448000	48290002	4420C318	41990004	9200C27D
0A53C0	D504C32F	C5D14770	C2064110	C32A45E0	C29C92F0	C27D9500	90004780	C28895FE
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0A5520	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040

LINES 0A5540-0A5580 SAME AS ABOVE

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0A5560	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040

LINES 0A55E0-0A5600 SAME AS ABOVE

0A5620	40404040	40404040	40404040	40404040	40404040	40404040	000A5644	40FFC4C5
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0A5660	D207C334	C5384110	C32A45E0	C29C4110	C4E445E0	C29C47F0	C2B80000	40404040
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0A57C0	C4C5D5C4	00000000						

LPA/JPA MODULE

ASKUPDTE

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0A5800	C540D284	CE74CE73	9209CE74	D207CE75	A008D207	CE7FA014	D21DC68A	A024D203
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0A58C0	47F0C20C	47F0C196	47F0C0FE	D504A000	D4484780	C132D503	503CD3F8	4770C136
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0A5940	CE75181B	4130CE74	58FC0103C	C5EF47F0	C11292F0	C181D203	503CD3F8	9680D048
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0A59A0	D4324110	D22058F0	D40405EF	91FFD04A	4770C2C0	FA77D250	D248D203	D220D408

K.C...K.C...K.C...N...C...8...C.
...C...C...OB...D...A...N...
...A...N...A...D...D...
...A...N...A...A...OA...
D.K.C...B...A...2K...
...K.C...K.C.E...
...C...C...C...
...A...C...B...
N.C.EJ...B...C...B...OB...B...
...B...OA...N...E...B...B...
K.C.E...C...C...OB...
...B...2K.C...
...C.K.C.E...C...9...C...B...
...C...OB...C...B...C...B...
OB.K...EO.OB...OC...B.K...OA...
K...ER.Y...K...E.K...C...O.K.OC...O
A...B...
...
K...N...E.N...E...
*

...DE
LET...K.D...K.D8...D...B...
K.C.E...C...B...DU...B...OB...
* RANGEARDFMKEY08 *
* ENDRGARDFMKEY08 *
...
* ARDFMKEY *
...
...
* RELSE UPDTENORECGOTITDELETHL *
* DEND... *
*

...LY
...L...LO...
E K...K...K...K...K...
...L4...G...C...I...K...
...O...K...K...K...
...B...O...IWM...A...
...N...LB...H...M...M...
...6...OB...OB...OCU...OC8...OC8...
OB...OA...O...N...M...A...N...LB...A...
...K...L...H...OH...ISM...O...
...A...A...M...A...M...K...I...
K...M...I...O...K...
...O...OA...F...A...OB...
...AB...OB...8.K.K.K.K.M.K.K.
M...K...OM...B...K.K.K.K.M.

JOB SC1801RC

STEP DELDEF

TIME 221601

DATE 80315

ID = 000

PAGE 0013

SA	0E22BC	WD1 00000000	HSA 000A7714	LSA 000B3AA4	RET 600B23E6	EPA 000B3A98	R0 00000001
		R1 000B2D28	R2 00000001	R3 00000000	R4 000B2828	R5 00000000	R6 00000003
		R7 000A8728	R8 000B2828	R9 808ECAD0	R10 000A6D58	R11 000B2D40	R12 600B22B8
SA	0B3AA4	WD1 00000000	HSA 000B22BC	LSA 00000000	RET 00000000	EPA 00000000	R0 00000000
		R1 00000000	R2 00000000	R3 00000000	R4 00000000	R5 00000000	R6 00000000
		R7 00000000	R8 00000000	R9 00000000	R10 00000000	R11 00000000	R12 00000000

INTERRUPT AT CA80EE

PROCEEDING BACK VIA REG 13

ASKUPDTE WAS ENTERED VIA CALL

SA	0A7714	WD1 00000000	HSA 000A4FA0	LSA 000B22BC	RET 600A7FB0	EPA 000B22B0	R0 FF0A86E0
		R1 000A6D58	R2 00000001	R3 000A6CDC	R4 0000000A	R5 000A6D4A	R6 000A6D58
		R7 FD000000	R8 008EC138	R9 808ECAD0	R10 000A7E10	R11 000A4FA0	R12 400A6B46

ASKUPDTE WAS ENTERED VIA LINK

SA	0A4FA0	WD1 00000000	HSA 00000000	LSA 000A7714	RET 0000F260	EPA 000A6B40	R0 008ECF40
		R1 000A4FE8	R2 00000040	R3 008E0634	R4 008E0610	R5 008EC840	R6 008BE018
		R7 FD000000	R8 008EC138	R9 808ECAD0	R10 00000000	R11 008C90B8	R12 70DEDA72

VTAM NOT ACTIVE FOR THIS CALL

VSAM JSCBSHR 8C9F48 000004

8C9F40 00000000

* *

NO VSAM VGTT CHAIN PRESENT FOR THIS ASCB

END OF VSAM DATA

REGS AT ENTRY TO ABEND

FLTR 0-6	0000000000000000	0000000000000000	0000000000000000	0000000000000000
REGS 0-7	80000000	80035000	8F8C8C78	60B2B2BA
REGS 8-15	008C889C	008C88EC	008C8680	00000000
			008C8D98	018C88C4
			00000000	00004638
			008C887C	00803E58
			018C88C4	0082B2B8

ACTIVE LOAD MODULES

LPA/JPA	MODULE	TRANSDEF								
0A51E0	90ECD00C	070005C0	47FC004C	00000000	00000000	00000000	00000000	00000000	00000000	*.....*
0A5200	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*.....*
0A5220	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*.....*
0A5240	00084160	CFFA58B1	000058A1	00045881	000C5871	00105821	001C5832	00009680	00009680	*.....*
0A5260	20001233	47D0C0CC	95D5704E	4780C0CC	92D5704E	D204C41B	C5C29148	20004780	20004780	*.....N.....N..K.D.EB.....*
0A5280	COA0D204	C418C5C7	91202001	4780C0AF	D204C41B	C5C79141	20014780	COBCD204	COBCD204	*..K.D.FG.....K.D.EG.....K.*
0A52A0	C418C5CC	58210024	18124100	C3CB58F0	103005EF	5820C314	07F2D202	C35EB03E	C35EB03E	*D.E.....C..O.....C..2K.C...*

BYPASS I/O INTERVENTION

+C ESTAE INDICATOR ON
RETAIN SCB ACROSS XCTL

THIS SCB IS IN USE

USER IN KEY 0-7

USER IN SUPERVISOR STATE

-----STAE CONTROL BLOCK-----AT LOCATION 008EE2E0

+0 NEXTSCB 008EE2F4 USEREXIT 00D0905E PARMLIST 168B1924 TCB/RB 038EE7D0 SCBDATA 4000DB00

SCB BIT FLAG SUMMARY

+8 ALLOW ASYNCHRONOUS INTERRUPTS

BYPASS I/O INTERVENTION

ESTAE INDICATOR ON

+C USER IN KEY 0-7

USER IN SUPERVISOR STATE

-----STAE CONTROL BLOCK-----AT LOCATION 008ECE30

+0 NEXTSCB 008EE2E0 USEREXIT 000C8C22 PARMLIST 168B1350 TCB/RB 038FE7D0 SCBDATA 0000DB00

SCB BIT FLAG SUMMARY

+8 ALLOW ASYNCHRONOUS INTERRUPTS

BYPASS I/O INTERVENTION

ESTAE INDICATOR ON

+C USER IN KEY 0-7

USER IN SUPERVISOR STATE

SAVE AREA TRACE

ASKUPDTE WAS ENTERED VIA LINK

SA	0A4FA0	WD1	00000000	HSA	00000000	LSA	000A7714	RET	0000F260	EPA	000A6B40	R0	008ECF40
		R1	000A4FE8	R2	00000040	R3	008E0634	R4	008E0610	R5	008EC840	R6	008BE018
		R7	FD000000	R8	008EC138	R9	808ECAD0	R10	00000000	R11	008C9DB8	R12	70DEDA72

ASKUPDTE WAS ENTERED VIA CALL

SA	0A7714	WD1	00000000	HSA	000A4FA0	LSA	000B22BC	RET	600A7FB0	EPA	000B2280	R0	FF0A86E0
		R1	000A6D58	R2	00000001	R3	000A6C0C	R4	0000000A	R5	000A6D4A	R6	000A6D58
		R7	FD000000	R8	008EC138	R9	808ECAD0	R10	000A7E10	R11	000A4FA0	R12	400A6B46

ASKUPDTE WAS ENTERED VIA CALL

-SNPPARMS

+100 006C0000 0F40BE00 008BAE08 008C9AC8 00000000

-DUMP STORAGE RANGES

+114 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+134 E2E8E2F4 C4E4D4D7 00000000 008C9AC8 008C9824 008C9828 008C982C 008C9830

+154 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-SUBFUNCTION REGISTER SAVE AREA

+174 00000000 00000000 00000000 50D62ECE 00D5F1C0 900142F8 008C96D0 00FD3DC0

+194 00D63678 008C9AC8 008EE6E0 40D6267C 00000000 008C96D0 008C9AC8 00000000

+1B4 00000000 008C9AC8

+1BC 00000000 00F40018 00000000 00000000 00800000 00000000 00000000 E0100000

+1DC 00000000 00D60336 00D62EFA 00000000 00D64452 00000800

-RECURSION REGISTERS

+1F4 000001A0 008C84C0 008BE05C 0080E600 008C9AC8 00D601E3 50D5F1E4 008C96D0

+214 008BAE08 00000000 008BE05C 008BAE60 008C9678 008C9844 00000000 00000000

-SAVE AREA FOR VTRT2

+234 00000000 00000000 00000000 40D641CA 00D62660 900142F8 00000C00 00FD3DC0

+254 0000F210 008C9AC8 008EE6E0 40D6369A 008EE740 008C96D0 00003200 008B8000

+274 00000000 008B8000

-SAVE AREA FOR TAS2/TAS3

+27C 00000000 00000000 00000000 50D62242 00D5E000 00000010 008B4888 00FD3DC0

+29C 008C96D0 008C9AC8 008EE2F4 40D6267C 008B4888 008C96D0 008EC770 50D616FC

+2BC 008EC730 008B4888

+2C4 008C9998

-RMPL

+2C8 84000005 00FE22F0 008C9AC8 00000000 008C99B0 00000000

-WORK AREA FOR RESOURCE MANAGER

+2E0 FF030100 008C99BC 008C99C4 E2E8E2C9 C5C1F0F1 C9C5C100 0002F980 00000C5C

+300 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-SAVE AREA FOR RESOURCE MANAGER

+320 00000000 008C9844 008C6F50 50D5F524 00DFOA88 000001F7 008BAE64 008BE05C

+340 0080E600 008C9AC8 00D601E3 50D5F1E4 008C96D0 008BAE08 00000000 008BE05C

+360 008BAE64 008C9678

+368 01010000 0005000C 34870000 00003200 008B4E00 008B55E0 008B4E00 008B7FE0

+388 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+3A8 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+3C8 00000000

RTM2WA SUMMARY

-----DEB-----AT LOCATION 008C8ADC

-24	DEBAVT	00AF7C18	000162A6	DEBPCIA	000162A6	DEBCEA	00B100C8	DEBXCEA	00B100CC	
-10	PREFIX	00000000	01000123	EXTNSION	008C8B30	LENGTH	OF	AMTYPE	20	TBLOF 0001
+0	TCBADR	068C9AC8	NEXTDEB	00000000	IRBADR	68000000	PATB	00001100		
+10	USRPC	01000000	RRQ	FF000000	DCBADR	8FOA7C8C	APPADR	048C8AB8		
+20	500021E0	000000F2	000000FF	001D01A4						
+30	C2C2C2C1	C3C8C3F0	C3C3C2C3	00000000						
+40	00000000	00000000	00000000	00000000						
+50	00000000									

-----DCB----- (BPAM) AT LOCATION 000A7C8C

+10	002B4B36	00000001	00000200	00000001	06000001	C0000000	011C2400	008C8ADC
+30	12B14028	01F99868	0E000001	00001928	00005800	000A4F28	01B11C28	00B11C28
+50	00000000	00AFC178						

-----IOB----- (SAM,BPAM-NORMAL SCHEDULING) AT LOCATION 000A4F30

-8	010A4F28	7F000000							
+0	FLAG	0200	SENS	0000	ECBPT	000A4F2C	CSW	00000000	00000000
+10	START	000A4F58	DCBPT	000A7C8C	RESTR	00000000	VARIABLE	00000000	

-----RTM2WA-----AT LOCATION 008C96D0

+0	D9E3D4F2	008C96D0	FF0003CC	0000F210	008C9AC8	008EE6E0	00FE22F0	80035000
+20	00000000	00000000	00000000	00000000	008C9AC8	008EE6E0	00FDD358	

-----EED TYPE1 REGS AND PSW

+3C	80000000	80035000	8F8C8C78	60B2B28A	008C8D98	018C88C4	008C887C	018C88C4
+5C	008C889C	008C8BEC	008C8680	00000000	00000000	00004638	00B03E58	00B2B2B8
+7C	075C1000	00B2B650	0002000D	00000000				

+8C	008EE5F0	00000000	00000000					
-----	----------	----------	----------	--	--	--	--	--

-----EED TYPE3 MACHINE CHECK

+98	00000000	00000000	00000000	00000000	00000000	00000000	00000000	
-----	----------	----------	----------	----------	----------	----------	----------	--

+B4	10041001	00001000	00000000	008EE5F0	00000000	00000000	008EE2F4	00000000
+D4	00000000	E6000248	008C8A70	00000010	00000000	00000000	FF540000	50B2B650
+F4	FF850013	400A80EE	008C97D0					

+1C COMPLETION CODE 80035000
+8C ABENDING PROGRAM NAME N/A
+94 ABENDING PROGRAM ADDR 00000000

+3C REGS AT TIME OF ERROR 80000000 80035000 8F8C8C78 60B2B2BA 008C8D98 018C88C4 008C887C 018C88C4 (0-7)
+5C 008C889C 008C88EC 008C8680 00000000 00000000 00004638 00803E58 0082B2B8 (8-F)
+7C EC PSW AT TIME OF ERROR 075C1000 00B2B650 0002000D 00000000
+DC SDWACOMP 008C8A70

+E8 RETURN CODE FROM RECOVERY ROUTINE-00,CONTINUE WITH TERMINATION-IMPLIES PERCOLATION
+E0 RETRY ADDR RETURNED FROM RECOVERY EXIT 00000010
+E4 RB ADDR FOR RETRY 00000000

+C CVT ADDR 0000F210
+38 RTCT ADDR 00FDD358
+C8 SCB ADDR 00000000
+D4 SDWA ADDR 00000000
+14 SVRB ADDR 008EE6E0
+16C PREV RTM2WA FOR THE TASK 00000000
+170 PREV RTM2WA FOR RECURSION 00000000

+B8 ASID OF ERROR IF CROSS MEMORY ABTERM 0000
+36C ERROR ASID 0005

+37C CURRENT TRACE ENTRY FOR SAVED TRACE TABLE 008B55E0
+380 FIRST TRACE ENTRY FOR SAVED TRACE TABLE 008B4E00
+384 LAST TRACE ENTRY FOR SAVED TRACE TABLE 008B7FE0

RTM2WA BIT FLAG SUMMARY

+2C8 TASK TERMINATION
ABNORMAL TERMINATION
TERMINATING TASK IS JOBSTEP
+B4 TASK ISSUED SVC 13
+B5 ENABLED RB IN CONTROL AT ERROR
+B7 ERROR ID INFORMATION AVAILABLE

ESA BIT FLAG SUMMARY (RTM1 RELATED INFORMATION) FROM SVRB AT 008EE6E0

+8B SYSTEM STATE: TASK MODE

-STAE CONTROL BLOCK-----AT LOCATION 008EE2F4

+0 NEXTSCB 00000000 USEREXIT 00D874A8 PARMLIST 168C87F8 TCB/RB 538EE5F0 SCBDATA 4850DB00

SCB BIT FLAG SUMMARY

+8 ALLOW ASYNCHRONOUS INTERRUPTS

[illegible]

```

ALLO CATED TO SYSPRINT
ALLO CATED TO SYSPRINT
ALLO CATED TO SYSUDUMP
ALLO CATED TO ET08E001

```

1

2015.41

[illegible]

[illegible]

◀

1

2D400000	2D3C0000	000C36A2	000300D2	01AF0CC0	00GA0001	00004F4C	0C001014	00004F4C	0C001014
0002000A	00000004	000B3000	001010C2	00C30000	0004004F	10C20017	000A9021	0001C08E	00102000
00000000	00000000	00000000	00000000	10AFC000	3B1A972F	42C8003C	42C630E4	42C30E41	42C90F5A
42C7EF04	42C7F328	42C7F230	42C7D080	43118B00	01010C00	3AAD3F36	3AAD3F36	3AAD3F36	3AAD3F36
3AAD3F36	3AAD3F36	3AAD3F36	3AA03F36	3B133178	3B133178	3B133178	3B145529	3B133178	3B133178
3B133178	3B133178	10100000	00000009	3F1B70C8	4220C165	00C00000	BC1AA209	01010101	010021A0

[illegible]

39D49D00 39846400 FA17172C BA498570 BA5FA360 BA2CF9FC BA2A21D0 BA3120C0 BA2C2F50 BA468790
7A25A177 3A5F3D60 39A77000 BA7775D0 BA13F0D0 BA2824F0 3A5F2F80 3A3037E0 BA3037E0
BA23AE00 BA5FC200 BA9595A0 BA8A5760 BA6375R0 EA341200 BA5B8B00 BA5B39F0 BA202080
BA338F00 BA10R200 BA3E65F0 BA355360 BA3197F0 BA291090 BA124570 BA4C00F0 BA7A06F0 BA600660
BA294900 BA19F1F0 BA508670 BA655710 BA385400 BA6099F0 BA9C7670 BA9C5590 BA7D3120 BA5D0770
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3A38A210 3AAB4860 3A3AE330 3A40C760 BA56C4D0 EA57F4C0 B91C9400 BA227C70 B7C20000 BA31C8D0
BA479570 BA369D80 B935ED00 BA4146E0 BA5F7910 BA3F8C90 BA3E6200 BA31E290 BA94F8F0 BA972C0
BA4A14F0 BA442A80 BA781C00 BA393860 BA1627C0 BA40F0F0 BA4AF9E0 EA43F780 BA40F5A0 BA2C87P0
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BA677980 BA3E1900 BA2055F0 BA5902E0 BA335D50 BA1C2B7F0 BA1C2B7F0 BA3C35C0 BA420A70 BA23B260 BA657A80
BA46C4A0 BA112290 BA69A4C0 BA5774D0 BA7556F0 BA39D490 BA39D490 BA39F600 BA3F7E10 BA14A430 BA1708E0
BA11BEF0 EA1FE010 BA665F00 BA67AC70 BA289E40 BA289E40 BA289E40 BA289E40 BA289E40 BA289E40 BA289E40
BA4959E0 BA63A980 BA600200 BA731A80 BA4F2000 BA4F2000 BA4F2000 BA4F2000 BA4F2000 BA4F2000 BA4F2000
3A36E910 3A46AE50 3A462750 BA459C60 BA459C60 BA459C60 BA459C60 BA459C60 BA459C60 BA459C60 BA459C60
BA30E230 BA4CFA70 BA199290 BA578F00 BA11R640 BA11R640 BA11R640 BA11R640 BA11R640 BA11R640 BA11R640
BA2CFA30 BA1F8820 BA265710 BA211CA0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0
BA86D790 BA30A5F0 BA30A5F0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0 BA259FE0
EA8C8D00 BA0EC30 BAABA630 BA4EF7B0 BA494AF0 BA494AF0 BA494AF0 BA494AF0 BA494AF0 BA494AF0 BA494AF0
BA15B610 3A147FC0 BA460740 BA2665R0 BA2665R0 BA2665R0 BA2665R0 BA2665R0 BA2665R0 BA2665R0 BA2665R0
BA1264F0 BA270250 BA3E7620 BA59ACE0 BA59ACE0 BA59ACE0 BA59ACE0 BA59ACE0 BA59ACE0 BA59ACE0 BA59ACE0
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BA2A9DAA BA14B9AR BA35E0F8 BA821206 BA821206 BA821206 BA821206 BA821206 BA821206 BA821206 BA821206
39271EA0 3A2DC450 BA32ACCF BA67324E BA67324E BA67324E BA67324E BA67324E BA67324E BA67324E BA67324E
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3AC205A2 BA23D7D8 BA3A0F75 BA3A0F75 BA3A0F75 BA3A0F75 BA3A0F75 BA3A0F75 BA3A0F75 BA3A0F75 BA3A0F75
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BA3135E7 BA6A4209 BA6A4209 BA6A4209 BA6A4209 BA6A4209 BA6A4209 BA6A4209 BA6A4209 BA6A4209 BA6A4209
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BA7AF5CD BA569C08 BA569C08 BA569C08 BA569C08 BA569C08 BA569C08 BA569C08 BA569C08 BA569C08 BA569C08
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10319 RECORDS IN FILE 1 OF TAPE

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 IEF285I VOL SER NOS= K3SCF5.
 IEF285I SYS80364.T085402.RV000.YZFWPBR1.S0000034 SYSIN DDNAME=FT05F001 2 EXCPS
 IEF285I VOL SER NOS= K3SCF4.
 IEF285I SYS80364.T085402.FV000.YZFWPBR1.S0000034 DELETED DDNAME=FT05F001 2 EXCPS
 IEF285I VOL SER NOS= K3SCF4.
 IEF285I SYS80364.T085402.SV000.YZFWPBR1.R0000029 SYSOUT DDNAME=FT06F001 9 EXCPS
 IEF285I VOL SER NOS= K3SCF6.
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 IEF285I SYS80364.T085402.RV000.YZFWPBR1.R0000033 KEPT DDNAME=FT08F001 20,642 EXCPS
 IEF285I VOL SER NOS= J0102.
 IEF280F K 490,J0102.YZFWPBR1.GC
 IEF373I STEP /GO / START 80364.1433
 IEF374I STEP /GO / STOP 80364.1445 CPU OMIN 47.22SEC MAIN 186K LCS OK
 - STEP 03 - RETURN CODE = 0000 STEP TIME = 4.26 MINS=(CPU= .78,IC= 3.48)
 IC IN SECS. DISK= 2.55,DFUN= .00,TAPE= 206.54,CELL= .00,CTFF= .12
 - SURCHARGES=(DRIVES ALLOC=000,TAPE MOUNTS=000,COFF=000,PAPER=000,PFICILITY=000001SECS. TOTAL STP TIME= 4.26 MINS. -
 IEF285I SYS80364.T085402.RV000.YZFWPBR1.LCDMCD DELETED.
 IEF285I VOL SER NOS= K3SCF5.
 IEF375I JOB /YZFWPBR1/ START 80364.1422
 IEF376I JOB /YZFWPBR1/ STOP 80364.1445 CPU 1MIN 51.79SEC
 - SYSTEM=REL21.8F (04-01-79) K3
 - JOB 0232-
 TOTAL TIME = 8.98 MINS=(CPU= 1.86,IC= 7.12)
 IC IN SECS. DISK= 14.62,DFUN= .00,TAPE= 413.15,CELL= .00,CTFF= .32