#675

ISEE 1 & 2

4SECOND AVERAGED ELECTRON AND PROTON DAT

77-102A-10H/77-102B-08F

4SEC RESOLVED B-FLD DATA (12-s AVG)

77-102A-04T/77-102B-04P

Table of Contents

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

REQ. AGENT	RAND NO.	ACQ. AGENT
RLR		SK

ISEE-1

4 SEC AVG ELECTRON AND PROTON DATA

77-102A-10H SPMS-00296

This data set catalog consists of 19 tapes for ISEE-1. The tapes are 6250 bpi, 9-track, binary, with an ASCII header file for each data file. The D and C numbers, time spans, and number of files are as follows:

77-102A-10H ISEE-1:

D#	C#	FILES	TIME SPANS
D-82300	C-27941	100	10/23/77 - 12/25/77
D-82301	C-27942	104	12/27/77 - 02/26/78
D-82302	C-27953	082	02/26/78 - 04/26/78
D-82303	C-27943	110	04/26/78 - 07/02/78
D-82304	C-27944	104	07/02/78 - 09/13/78
D-82305	C-27945	106	09/13/78 - 12/10/78
D-82306	C-27946	106	12/10/78 - 02/21/79
D-82307	C-27947	088	02/21/79 - 04/29/79
D-82308	C-27948	108	04/29/79 - 07/08/79
D-82309	C-27949	094	07/08/79 - 09/16/79
D-82310	C-27950	100	09/16/79 - 11/25/79
D-82311	C-27951	094	11/25/79 - 01/30/80
D-82312	C-27952	022	01/30/80 - 02/19/80
D-84356	C-28844	030	10/27/82 - 11/27/82
D-84357	C-28845	090	02/23/83 - 06/09/83
D-84358	C-28846	072	06/12/83 - 09/03/83
D-84359	C-28847	056	09/04/83 - 11/22/83
D-84360	C-28848	018	11/23/83 - 12/27/83
D-79073	C-27160	110	03/30/86 - 06/17/86

REQ. AGENT	RAND NO.	ACQ. AGENT
RLR		SK

ISEE-2

4 SEC AVG ELECTRON AND PROTON DATA

77-102B-08F SPMS-00179

This data set catalog consists of 20 tapes for ISEE-2. The tapes are 6250 bpi, 9-track, Binary, with an ASCII header file for each data file. The D and C numbers, time spans, and number of files are as follows:

77-102B-08F ISEE-2:

D#	C#	FILES	TIME SPANS
D-82313	C-27994	106	10/22/77 - 12/28/77
D-82314	C-27995	108	12/28/77 - 02/26/78
D-82315	C-27996	106	02/26/78 - 04/27/78
D-82316	C-27997	110	04/27/78 - 07/01/78
D-82318	C-27999	088	07/02/78 - 09/13/78
D-82317	C-27998	092	09/13/78 - 12/10/78
D-82320	C-28001	108	12/10/78 - 02/21/79
D-82319	C-28000	114	02/21/79 - 04/29/79
D-82321	C-28002	106	04/29/79 - 07/08/79
D-82322	C-28003	104	07/08/79 - 09/16/79
D-82325	C-28006	098	09/16/79 - 11/25/79
D-82324	C-28005	100	11/25/79 - 01/29/80
D-82323	C-28004	036	01/30/80 - 02/19/80
D-84361	C-28849	036	10/24/82 - 11/27/82
D-84362	C-28850	082	11/28/82 - 02/22/83
D-79070	C-27161	120	02/21/83 - 06/11/83
D-79071	C-27162	086	06/12/83 - 09/01/83
D-84363	C-28851	056	09/04/83 - 12/13/83
D-85875	C-28939	6	12/13/83 - 12/27/83
D-79072	C-27163	110	03/28/86 - 06/17/86

ATTN: Ralph Post
RE: isee archive tapes

23-Nov-88

These four tapes contain isee data from the Berkeley/Toulouse high time resolution energetic particle experiments. They are in a FLAT format with the particulars as described in the accompanying letter to Sumant Krishnaswamy and the sample header file.

The tapes cover the time periods:

28-Mar-86 to 17-Jun-86 for isee 1 and 2;
21-Feb-83 to 1-Sep-83 for isee 2.

If you have questions, my phone number is 206-543-9055.

Michael McCarthy

9. **spin pr** is the spacecraft spin period as determined from the sun sensor.
10. Units for flux are cm^{-2}-sec^{-1}-keV^{-1}-$ster^{-1}$.

Sincerely,

Michael McCarthy

Instrument Paper:

Anderson et al., IEEE Trans. Geosci. Electronics, GE-16, No. 3, July 1978, 213 – 216.

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Space Sciences Division
Geophysics Program, AK-50
(206) 543-0208 or 543-8020

September 26, 1991

Sumant Krishnaswamy
NSSDC Project
7601 Ora Glen Drive
Suite 300
Greenbelt, MD 20770

Dear Dr. Krishnaswamy:

I have just sent the ISEE archive tapes for period II (which is from October 15, 1982 to December 25, 1983). Ralph should receive them shortly. Each tape has a summary page containing the starting and stopping times of every file. There are eight tapes in one box: five from isee 1 and three from isee 2.

This concludes the archive shipments except for two flat tapes. The two tapes yet to be delivered are tapes correspond to the following dates:

isee 1: 28 Nov 1982 (332) - 22 Feb 1983 (053)
isee 2: 23 Nov 1983 (327) - 27 Dec 1983 (361).

All the data for these tapes has been processed, we are just having some problem putting it on the tapes. I will get them out as soon as I can.

If you have any questions please call me at (206) 543-0208.

77-102A-10H
77-102B-08F — DD84361-63

Sincerely,

Jeffery Ross

62-7505

cc; Dr. Robert O. Wales
Dr. Keith Ogilvie
Dr. Mary Mellott
Dr. Tom Armstrong

Recv'd 10/1/91

Communication: *INTERNET:jeff@geophys.washington.edu / DECNET(span): uwspan::max::dolly / FAX:(206)685-3815 / PHONE:(206)543-0208*

The UNIVERSITY of WASHINGTON

GEOPHYSICS DEPARTMENT, AK-50
SEATTLE, WASHINGTON 98195

Michael P. McCarthy
Research Associate
[206] 543-9055

14-October-1988

Sumant Krishnaswamy
Code 633
NSSDC
NASA/GSFC
Greenbelt, MD 20771

RE: Format of archive tapes

These data are from the high time resolution particle detectors from Berkeley/Toulouse. These detectors were installed on both ISEE-1 and ISEE-2. Dr. Kinsey Anderson was PI for this experiment. Data tapes (6250 bpi) contain about 110 files arranged in pairs of a header file and its associated data file. The header files are ASCII and the data files contain binary data in a format described in the header file. These are FLAT files.

The header file is terse in its description of the data fields and some additional information will be given here.

1. **time** is the time at the end of the 4 second averaging period.
2. **ot***nn* refers to the open solid state telescopes which collect both protons and electrons.
    a. $nn = 12$ means 16 keV < energy < 280 keV.
    b. $nn = 60$ means 84 keV < energy < 280 keV.
    c. $nn = 200$ means (electron) energies greater than 200 keV.
3. **ft***nn* refers to the solid state telescopes with a foil cover. These collect only electrons.
    a. $nn = 8$ means 19 keV < energy < 280 keV.
    b. $nn = 60$ means 84 keV < energy < 280 keV.
4. *n***e** refers to electrostatic analyzers collecting electrons. When $n = 2$, the energy range is approximately 1.4–1.6 keV. When $n = 6$, the energy range is approximately 4.5–6.0 keV.
5. *n***p** refers to electrostatic analyzers collecting protons. The energy ranges are similar to those for the electrons.
6. **coin** refers to counts of very energetic particles which penetrate the first solid state detector in the open telescopes. This includes electrons of energy greater than 300 keV and protons of energy greater than 1 MeV.
7. **sc angle** refers to the spacecraft spin angle as determined by the sun sensor. 0° means the sun sensor is looking at the sun.
8. $\{x, y, z\}$ **pos** is the spacecraft coordinates in the GSE coordinate system.

```
L
  CDATE =  Sat Apr  9 08:59:15 1988
  RECL  =    68
  NCOLS =    16
  NROWS =      30115
  BF    =   50
  FILL  =    -1.00000
    # NAME       UNITS     SOURCE                      TYPE      LOC
  001 time       seconds   ISEE 2                       T          0
  002 ot12       flux      ISEE 2                       R          8
  003 ot60       flux      ISEE 2                       R         12
  004 ft8        flux      ISEE 2                       R         16
  005 ft60       flux      ISEE 2                       R         20
  006 2e         flux      ISEE 2                       R         24
  007 6e         flux      ISEE 2                       R         28
  008 2p         flux      ISEE 2                       R         32
  009 6p         flux      ISEE 2                       R         36
  010 ot200      flux      ISEE 2                       R         40
  011 coin       flux      ISEE 2                       R         44
  012 sc ang     degrees   ISEE 2                       R         48
  013 x pos      Km        ISEE 2                       I         52
  014 y pos      Km        ISEE 2                       I         56
  015 z pos      Km        ISEE 2                       I         60
  016 spin pr    Msecs     ISEE 2                       R         64
ABSTRACT
      start time: 1986 Mar 28 ( 87) 12:49:20.100
       stop time: 1986 Mar 29 ( 88) 22:17:02.210
  average period:   4.000 seconds
     data format: IEEE
EOF
```

This is double precision floating point with a time origin 00:00:00 GMT on Jan 1 1965.

Sample header file listing

NOTE FOR VAX USERS, ON READING DATA IN NON-VAX REPRESENTATIONS

February, 1994
H K. Hills

On the current VAX operating system, there is a conversion feature that allows the Fortran programmer to insert CONVERT=(one of several valid keyword values) into the OPEN statement, and then the data that are read in through that file with an unformatted Fortran READ statement are converted from the specified representation to VAX representation during the read process. For more details, use the system HELP file for FORTRAN/CONVERT.

Documentation for NSSDC data sets 77-102A-10H (ISEE-1)
77-102B-08F (ISEE-2)

Information on IEEE floating point format

	Single Prec.	Double Prec.
sign	bit 31	bit 63
exponent	bits 30-23 bias 127	bits 62-52 bias 1023
fraction	bits 22-0	bits 51-0

Fortran real and double precision numbers are composed of the following parts:

* a one bit sign. 1 ==> negative number.

* a biased exponent. The exponent is eight bits for a real number and is eleven bits for a double precision number. The values of all ones and all zeros are reserved.

* a normalized significand, with the high order 1 bit implicit. The fraction is 23 bits for a real number and 52 bits for a double precision number. A real or double is represented by the form:

2**(exponent - bias) * 1.f

where f is the bits in the mantissa.

zero is represented by an exponent of zero and a fraction of zero.

Some further examples of IEEE numbers follow:

+1.0	3f800000	3ff0000000000000
-1.0	bf800000	bff0000000000000
+2.0	40000000	4000000000000000
+3.0	40400000	4008000000000000

From: NCF::KAYSER   "Susan E. Kayser GSFC [redacted]" 26-JUL-1989 11:0
To: SUMANT
CC:
Subj: Subroutines to convert IEEE --> VAX

K-1

```
C***********************************************************************
C                                                                      *
C  PROGRAM: IEEE_VAX                    VERSION: 89.5    PROJECT: NSSDC
C
C  ENGLISH NAME: IEEE to VAX
C  LANGUAGE: FORTRAN77 for VAX 8650
C
C  PURPOSE: To convert between IEEE and VAX formats
C
C  METHOD: IEEE integers are like IBM integers:  to convert to VAX,
C  you need only rearrange the bytes.  E.g., in a VAX dump, a 4-byte
C  word can be represented as DCBA, where A is the earliest address
C  and D is the last.  For IEEE and IBM, A is the most significant
C  byte and D the least (so normal reading is ABCD); for the VAX:
C                  IEEE (IBM)       VAX
C     I*4          DCBA             ABCD
C     I*2          BA               AB
C  For floating point numbers, the bytes must be rearranged:
C     R*4          DCBA             CDAB
C     R*8          HGFE DCBA        GHEF CDAB
C  and also the contents of the bytes changed.
C
C    R*4:  A real number is represented as 2**n * ( b0/2**0 + b1/2**1
   + b2/2**2 ...) where the bI are either 0 or 1, and n is the
   largest power of 2 less than the number.  For example:
      3 = 2 * (1 + 1/2)             5 = 2**2 * (1 + 1/2**2)
C  and the first term in the () is always 1.  For IEEE as for the
C  VAX, bit 31 (msb) is the sign bit (1 for negative number), the 8
C  bits 30-23 are for the exponent, and the remaining bits 22-0 (lsb)
C  are the fraction.  The exponent has a bias, which is 127 for IEEE,
C  i.e. the 8 exponent bits = n + 127.  The fraction has the first 1
C  implicit.  E.g., for 3, bit 31 is 0, bits 30-23 are 1000 0000, and
C  the mantissa is 1000..., or 0100 0000 0100 0000... or 404000000;
C  for 5, the exponent is 2+127 = 1000 0001 and the mantissa is 01
C  (omitting the initial 1), or 0100 0000 1010 0000... or 40A00000.
C  The number 0 is represented as 00000000 for IEEE and VAX.
C    The VAX has a bias of 128--but also seems to define the exponent
C   as the first power of two larger than the number, which means that
C  the VAX exponent is effectively 2 greater than the IEEE exponent.
C  The fraction's highest (implicit 1) term is then 1/2, and the
C  mantissa will be identical to that of IEEE.
C
C      R*8:  The IEEE representation has bit 63 (msb) for the sign,
C  the next 11 bits 62-52 for the exponent, with a bias of 1023, and
C  the remaining 52 bits 51-0 (lsb) for the fraction (high-order 1
C  omitted).  The VAX has bit 63 for the sign, the next 8 bits 62-55
C  for the exponent, with a bias of 128, and the remaining 55 bits
C  54-0 for the fraction.  Thus the bias must be changed, the
C  exponent shrunk to 8 bits (which means that very large exponents
   cannot be represented in VAX), and 3 0-bits tacked on as the lsb.

C      The procedure for R*4 conversion is a modification of a
C  program sent by George Pitt which adds 1 to the exponent and then
C  reorders the bytes.
C      The procedure of R*8 conversion reorders the bytes so that the
```

```
C  most significant byte is at the start of the longword (ABCD), uses
C  the bit-manipulation VAX functions IAND, IOR, and ISHFT to make
C  the conversion, and rearranges the bytes into the Vax order CDAB.
C
C  CALLS:
C    IE_VAX8....INVERT4              R*8 conversion IEEE-->VAX
C           ....NUFLIP4
C    IE_VAX4....IFLIP4               R*4 conversion IEEE-->VAX
C    INVERT4                         I*4 conversion IEEE-->VAX (DCBA-->ABCD)
C    IFLIP4                          (DCBA-->CDAB)
C    NUFLIP4                         (ABCD-->CDAB)
C    VAX2LCL                         R*4 conversion VAX-->IEEE
C
C  COMMONS:          VARIABLES CHANGED:
C    none
C
C  CALLING SEQUENCE:
C    SUBROUTINES IE_VAX8 and IE_VAX4 (N,IARRAY,JARRAY)
C    SUBROUTINE  vax2lcl (N,IARRAY)
C      N:       Number of items to be converted
C      IARRAY: Incoming array (IEEE format) of N items (consecutive)
C      JARRAY: Output array, converted to VAX format
C    FUNCTIONS INVERT4,IFLIP4,NUFLIP4 (INT)
C      INT:     Input 4-byte word
C
C  VARIABLES:
C    BYTES(4):  4 bytes equivalenced to the 4-byte word ICONV or INT
C    FILL:      Output when conversion produces bad value
C    ICONV:     Holds most significant 4 bytes to be converted
C    ICONV2:    For R*8, holds least significant 4 bytes
C    IOFF:      Hex Adjustment to change IEEE bias to VAX bias
C    ISIG:      Holds significand of ICONV (everything but sign)
C    ISIGN:     Holds sign bit
C    IWORD:     Temporary storage for a 4 byte word
C
C  ERROR HANDLING:
C    For REAL conversion, the resulting exponents are checked to be
C  sure they do not exceed valid limits.  If they do, an error message
C  is written, and the output is replaced by FILL.
C
C  PDL:
C
C  DESIGN AND CODING: S. Kayser     -SAR-              May, 1989
C    IE_VAX4 is based on a routine sent by George Pitt.
C  MODIFIED:
C********1*********2*********3*********4*********5*********6*********7*
      SUBROUTINE IE_VAX8(N,IARRAY,JARRAY)
C..Convert from Pyramid IEEE double to Vax floating point R*8 format
C..Original word is unchanged.
      DIMENSION IARRAY(1),JARRAY(1)
      INTEGER ISIGN,ISIG,IOFF/'37E00000'X/
      INTEGER ICONV,ICONV2,IWORD
      REAL*8  FILL/-1.D9/
      DO 100 I = 1,N
         ICONV  = IARRAY(2*I-1)
         ICONV2 = IARRAY(2*I)
         IF (ICONV.NE.0 .OR. ICONV2.NE.0) THEN
            ICONV = INVERT4(ICONV)
            ISIGN = IAND(ICONV,'80000000'X)      ! Pick up sign bit
            ISIG  = IAND(ICONV,'7FFFFFFF'X)      ! Pick up significand
```

K-2

```
           ISIG  = ISIG - IOFF                   ! Change exp bias
           IF (ISIG .LT. '00800000'X) THEN
              WRITE(31,1110) ICONV,ICONV
 1110         FORMAT(' IE_VAX8: out-of-bounds',I10,Z10)
              JARRAY(2*I-1) = FILL
              GO TO 100
           ENDIF
           IF (ISIG .GT. '75800000'X) THEN
              WRITE(31,1110) ICONV,ICONV
              JARRAY(2*I-1) = FILL
           GO TO 100
           ENDIF
           ICONV = ISIG * 8                      ! Shift 3 bits
           ICONV = IOR(ICONV,ISIGN)              ! Put sign bit back
C..High order word still needs 3 bits transferred from low order
           IF (ICONV2 .NE. 0) THEN
              IWORD = IAND(ICONV2,'E0'X)         ! Pick up 3 msb
              IWORD = ISHFT(IWORD,-5)
              ICONV = IOR(ICONV,IWORD)           ! Transfer 3 bits
              ICONV2 = INVERT4(ICONV2)
              ICONV2 = ISHFT(ICONV2,3)           ! Shift 3 bits
              ICONV2 = NUFLIP4(ICONV2)
           END IF
           ICONV = NUFLIP4(ICONV)
        END IF
        JARRAY(2*I-1) = ICONV
        JARRAY(2*I)   = ICONV2
  100 CONTINUE
      RETURN
      END
      FUNCTION INVERT4(INT)
C..Reverses order of bytes in I*4 word (or R*4).  DCBA --> ABCD
C..Original word is unchanged.
      BYTE BYTES(4), OBYTES(4)
      EQUIVALENCE (BYTES,INEW), (OBYTES,IOUTA)
      INEW = INT
      OBYTES(1) = BYTES(4)
      OBYTES(2) = BYTES(3)
      OBYTES(3) = BYTES(2)
      OBYTES(4) = BYTES(1)
      INVERT4 = IOUTA
      RETURN
      END
      FUNCTION IFLIP4(INT)
C..Flips order of bytes by pairs in I*4 word (or R*4).  DCBA --> CDAB
C..Original word is unchanged.
      BYTE BYTES(4), OBYTES(4)
      EQUIVALENCE (BYTES,INEW), (OBYTES,IOUTA)
      INEW = INT
      OBYTES(1) = BYTES(2)
      OBYTES(2) = BYTES(1)
      OBYTES(3) = BYTES(4)
      OBYTES(4) = BYTES(3)
      IFLIP4 = IOUTA
      RETURN
      END
      FUNCTION NUFLIP4(INT)
C..Reorders bytes in I*4 word (or R*4).  ABCD --> CDAB
C..Original word is unchanged.
      BYTE BYTES(4), OBYTES(4)
```

```
      EQUIVALENCE (BYTES,INEW), (OBYTES,IOUTA)
      INEW = INT
      OBYTES(1) = BYTES(3)
      OBYTES(2) = BYTES(4)
      OBYTES(3) = BYTES(1)
      OBYTES(4) = BYTES(2)
      NUFLIP4= IOUTA
      RETURN
      END
C---------------------------------------------
      SUBROUTINE IE_VAX4(N,IARRAY,JARRAY)
C..Convert from Pyramid IEEE single to Vax floating point f format
C..Modified by S. Kayser, to use FLIP4.
      DIMENSION IARRAY(N),JARRAY(N)
      BYTE BYTES(4)
      INTEGER ICONV,IWORD
      EQUIVALENCE (ICONV,BYTES)
      DATA FILL/-1.E9/
      DO 100 I = 1,N
        ICONV = IARRAY(I)
        IF (ICONV .NE. 0) THEN
          IWORD = BYTES(1) + 1          ! Changes exponent bias
          IF (IWORD .GT. 255) THEN
            WRITE(31,1100) ICONV,ICONV
 1110          FORMAT(' IE_VAX4: out-of-bounds',I10,Z10)
               JARRAY(I) = FILL
               GO TO 100
          ENDIF
          BYTES(1) = IWORD
          ICONV = IFLIP4(ICONV)
        ENDIF
        JARRAY(I) = ICONV
  100 CONTINUE
      RETURN
      END
C---------------------------------------------------------------
C..converts from vax f format to IEEE (UNIX point of view)
      subroutine vax2lcl(n,iarray)
      dimension iarray(n)
      character*1 conv(4),ccc
      integer iconv
      equivalence (iconv,conv)
c Convert from vax floating point f format to pyramid IEEE single
      do 10 i=1,n
        iconv=iarray(i)
        if (iconv.ne.0) then
         ccc=conv(1)
         iii=ichar(conv(2))-1
         if (iii.lt.0)then
           write(0,100)iconv
 100       format(' vax2lcl: overflow int in =',i10)
           call exit(1)
         endif
         conv(1)=char(iii)
         conv(2)=ccc
         ccc=conv(3)
         conv(3)=conv(4)
         conv(4)=ccc
         iarray(i)=iconv
        endif
```

K-5

```
10  continue
    return
    end
```

DUMP OF TAPE D1OUT

INPUT TAPE D1OUT ON HT0
DATA INPUT H9 NF=110 SR=2 1 1 SR=110 LAST 1

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	30	30	72	0	0	0	0	0	0

FILE 2 RECORD 1 LENGTH 3400BYTES

(0)	41C3F9FC	D7FF7CED	47EDF764	468D50E0	46013711	46597C9E	49440254	4A1FB73F	488113CC	48473AC9
(40)	45D382A1	429A229E	42B2F368	00000000	00000000	00000000	00000000	41C3F9FC	D9FF3B64	C0000000
(80)	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000	434ACD58
(120)	FFFF66BE	FFFF15A4	00009BDE	453E0C58	41C3F9FC	DBFEF9DB	4808C6CE	478D9CC3	45DCEF7C	46022A56
(160)	492D4810	4AC89890	47A5E076	46534F1E	40685006	446285EB	439E372A	FFFF66C5	FFFF15A8	00009BDD
(200)	453E0C58	41C3F9FC	DDFEB851	47ECD84C	4751FD21	45DB5A5E	46026752	492C1961	4A963C9D	479D8D71
(240)	46610D80	4039D99E	4436950E	428C60B8	FFFF66CC	FFFF15AD	00009BDC	453E0E4C	41C3F9FC	DFFE76C8
(280)	47E3D903	4747D33C	4643695A	4675CCC5	492EBA02	49FFE42D	47A3C8CC	4641453C	400B6337	44F01DB4
(320)	43377F14	FFFF66D3	FFFF15B1	00009BDB	453E0E4C	41C3F9FC	E1FE353F	48077E77	478B4BFB	45D80266
(360)	45FC5853	492DF038	49F53248	479B85AF	465E79CE	408B6337	4433E26C	43949116	FFFF66DA	FFFF15B5
(400)	00009BDA	453E0C58	41C3F9FC	E3FE147A	47F35D5C	475C557F	45D4D82A	45FC755D	492E76BF	49EC1304
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(480)	E5FDD2F1	47E2FC14	47480182	46403895	46726599	492E337C	49D9AC39	47A3A4BA	466DEFFB	40685006
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(680)	41C3F9FC	EBFD0E56	47E6D103	47468DFE	464A74C5	46705AE4	492EDBA4	49C56247	47AAD9E1	464FDF84
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(760)	477731F2	45F49219	461C5B76	49311761	49C67C1E	47AA3DF3	465BCA34	400B6337	44602E29	4381362A
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(1880)	443F96B1	4389BC50	FFFF6775	FFFF1618	00009BC0	453E0E4C	41C3F9FD	0FF89374	47F81B7C	476D936F
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          FILE     INPUT      DATA RECORDS       MAX.           READ ERROR SUMMARY                  INPUT RETRIES
                   RECS.         INPUT           SIZE        PERM  ZERO B    SHORT    UNDEF.     #RECS.   TOTAL#
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(2120)	47477239	46198E16	46363A52	48B10846	4832FBF9	47EE632D	463336B8	3F37A9A5	44A3411C	43103918
(2160)	FFFED992	00017039	00001E6B	453E0870	41C42E9F	FFAC0831	47F54845	4758AA20	460B811B	461D1E20
(2200)	48AF9BC5	483AF06B	47EAB84D	462AAE04	3FB7A9A5	4453F1B9	4380E986	FFFED992	00017039	00001E6B
(2240)	453E0870	41C42EA0	01AC0831	480481FE	4789BF3C	45DAC583	45FC8943	48B1FB48	483A5EF4	47F15248
(2280)	4641F44A	4037A9A5	4417CC42	4136DB40	FFFED992	00017039	00001E6B	453E0870	41C42EA0	03AC0831
(2320)	47EAC52D	47449392	460F5D9C	4627E111	48B01545	483AF06B	47F09681	46247925	4037A9A5	44869CFC
(2360)	42FA0F50	FFFED992	00017039	00001E6B	453E0870	41C42EA0	05AB020C	47EFEF1E	474D2F87	461A8ECE
(2400)	46335BAB	48B01545	483A5EF4	47EC2FD9	46301C49	4009BF3C	44765045	436E0BD8	FFFED983	0001703F
(2440)	00001E74	453E0A64	41C42EA0	07AB020C	480671B8	4789BF3C	45BEAB8D	45DE676E	48B274C8	48341EE4
(2480)	47E940BF	462C3B3C	4065940F	443D0805	43AFD070	FFFED983	0001703F	00001E74	453E0A64	41C42EA0
(2520)	09AB020C	47EB2399	47477239	4605273C	4615F180	48B10846	483A5EF4	47EF1EF4	462C3B3C	4065940F
(2560)	4428FB88	42D26BD0	FFFED983	0001703F	00001E74	453E0A64	41C42EA0	0BAB020C	47EB2399	47477239
(2600)	462428CA	46449392	48B01545	4835D347	47EAB84D	46406713	4009BF3C	44B47062	435ACAF0	FFFED983
(2640)	0001703F	00001E74	453E0A64	41C42EA0	0DA9FBE7	47FCDB9B	47925B30	45E6D732	453D66F2	48B4CAF3
(2680)	483845E0	47E30BE1	462EBCE6	40B7A9A5	C0000000	43A5B70C	FFFED975	00017045	00001E7D	453E0A64
(2720)	41C42EA0	0FA9FBE7	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000	C0000000
(2760)	C0000000	C0000000	42AA0640	FFFED975	00017045	00001E7D	453E0A64			

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
110	420	421	3400	0	0	0	0	0	0

EOJ DUMP STOPPED AFTER FILE 110 # OF PERMANENT READ ERRORS 0

START TIME 05/15/89 10:45:26 STOP TIME 05/15/89 10:51:16

```
$$
$ASS IN HT1
$EXE TPNRCF BS
```

REQ. AGENT	RAND NO.	ACQ. AGENT
RLR		SK

ISEE-1

4 SECOND RESOLVED B-FIELD DATA (12-S AVG)

77-102A-04T SPMS-00304

This data set catalog consists of 5 tapes for ISEE-1. The tapes are 6250 bpi, 9-track, unlabeled, multifiled, binary, created on the IBM 360. The records are of fixed length with 24 bytes per record and ~~1000~~ 780 records per block. The data format for each logical record is as follows:

I*2 FOUR DIGIT YEAR	(IBM FORMAT)
I*2 DAY OF YEAR (001=JAN 1)	(IBM FORMAT)
I*4 MILLISECONDS OF DAY	(IBM FORMAT)
R*4 BX SC, BY SC, BZ SC, BT	(IBM FORMAT).

The D and C numbers, time spans, and number of files are as follows:

77-102A-04T ISEE-1:

D#	C#	FILES	ORBITS	TIME SPANS
D-80100	C-27689	60	741 - 800	08/26/82 - 01/16/83
D-80101	C-27690	60	801 - 860	01/16/83 - 06/09/83
D-80102	C-27691	60	861 - 920	06/09/83 - 10/30/83
D-80103	C-27692	30	921 - 950	10/30/83 - 01/10/84
D-80104	C-27693	60	1271 - 1330	02/13/86 - 07/06/86

REQ. AGENT	RAND NO.	ACQ. AGENT
RLR		SK

ISEE-2

4 SECOND RESOLVED B-FIELD DATA (12-S AVG)

77-102B-04P SPMS-00184

This data set catalog consists of 5 tapes for ISEE-2. The tapes are 6250 bpi, 9-track, unlabeled, multifiled, binary, created on the IBM 360. The records are of fixed length with 24 bytes per record and 1000 records per block. The data format for each logical record is as follows:

I*2 FOUR DIGIT YEAR	(IBM FORMAT)
I*2 DAY OF YEAR (001=JAN 1)	(IBM FORMAT)
I*4 MILLISECONDS OF DAY	(IBM FORMAT)
R*4 BX SC, BY SC, BZ SC, BT	(IBM FORMAT).

The D and C numbers, time spans, and number of files are as follows:

77-102B-04P ISEE-2:

D#	C#	FILES	ORBITS	TIME SPANS
D-80105	C-27694	60	741 - 800	08/26/82 - 01/16/83
D-80106	C-27695	60	801 - 860	01/16/83 - 06/09/83
D-80107	C-27696	60	861 - 920	06/09/83 - 10/30/83
D-80108	C-27697	30	921 - 950	10/30/83 - 01/10/84
D-80109	C-27698	60	1271 - 1330	02/13/86 - 07/06/86

77-102A-04T
77-102B-04P

12/22/89

ISEE MAGNETOMETER FOUR SECOND DATA TAPE DESCRIPTION

This letter describes the format used by the ISEE-1 and ISEE-2 magnetometer group for the submission of its four second data on magnetic tape to the National Space Science Data Center (NSSDC).

The overall description is that the data is stored as IBM integer and floating point numbers, and written onto standard 1/2 inch 6250-bpi 9-track magnetic tapes. The logical record length will be fixed for all tapes at 24 bytes. The physical blocksize for all tapes will be fixed at 2,400 bytes. Each physical block contains 100 logical records. Each magnetic tape contains 30 or 60 files of data seperated by a single end-of-file mark. The end-of-data is indicated by two successive end-of-file marks at the end of the 30th or 60th data file.

Each tape file contains magnetometer data in spacecraft coordinates from one of the spacecraft for one orbit, an orbit being measured from perigee to perigee. Each magnetic tape contains 30 or 60 orbits of data. The data provided are 12 second overlapping data averages of the highest resolution data, recorded every four seconds.

The external labels on the magnetic tape contain the following information: Name of the spacecraft and experiment; start and stop dates of the data on the tape; the density (6250-bpi) and number of tracks (9) at which the tape was recorded; the physical blocksize and the logical record length used in writing the tape; an estimate of the amount of tape used; the production date of the tape; and a name and telephone number of the individual responsible for the tape.

All data is stored in standard IBM/360 format for the recording of integer and floating point data values. The data fill value (flag value) for magnetometer values is +1.0e34. There are no fill values for the time values. There are no significant time gaps in the data, that is, times with fill values have been generated to fill all time gaps in the data. The format of each logical record is:

INTEGER*2	Four digit year for the data point
INTEGER*2	Three digit day of year for the data point (001 = Jan. 1)
INTEGER*4	Milliseconds of the day for the data point (0 = midnight)
REAL*4	BX magnetometer value in spacecraft coordinates for this time
REAL*4	BY magnetometer value in spacecraft coordinates for this time
REAL*4	BZ magnetometer value in spacecraft coordinates for this time
REAL*4	BT magnetometer value for this time

The last physical block of each tape file may contain more than one copy of the last logical record so that all physical blocks are the same size.

Questions concerning these data tapes may be directed to:

Harry Herbert or Muriel Kniffin
University of California at Los Angeles
Institute of Geophysics and Planetary Physics
5833 Slichter Hall
Los Angeles, California 90024-1567
(213)206-6073 213-825-9030 Harry Herbert
SPAN: BRUNET::HARRY or BRUNET::MURIEL

DUMP OF TAPE IOLT1

D-80100
C-27689

INPUT TAPE IOUT1 ON HT1
DATA INPUT H9 NF 60 SR 1 1 1 SR 6J LAST 1

8/26/82
6:31:04.00
- 1/16/83
15:58:59.23

1982 238~8/26 6:31:40

FILE 1 RECORD LENGTH 2400BYTES

BX BY BZ BT

(0)	07BE00EE	01660840	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016617E0	5D1ED09C	5D1ED09C
(40)	5D1ED09C	5D1ED09C	07BE00EE	01662780	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01663720
(80)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016646C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(120)	07BE00EE	01665660	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01666600	5D1ED09C	5D1ED09C
(160)	5D1ED09C	5D1ED09C	07BE00EE	016675A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01668540
(200)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016694E0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(240)	07BE00EE	0166A480	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0166B420	5D1ED09C	5D1ED09C
(280)	5D1ED09C	5D1ED09C	07BE00EE	0166C3C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0166D360
(320)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0166E300	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(360)	07BE00EE	0166F2A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01670240	5D1ED09C	5D1ED09C
(400)	5D1ED09C	5D1ED09C	07BE00EE	016711E0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01672180
(440)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01673120	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(480)	07BE00EE	016740C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01675060	5D1ED09C	5D1ED09C
(520)	5D1ED09C	5D1ED09C	07BE00EE	01676000	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01676FA0
(560)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01677F40	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(600)	07BE00EE	01678EE0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01679E80	5D1ED09C	5D1ED09C
(640)	5D1ED09C	5D1ED09C	07BE00EE	0167AE20	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0167BDC0
(680)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0167CD60	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(720)	07BE00EE	0167DD00	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0167ECA0	5D1ED09C	5D1ED09C
(760)	5D1ED09C	5D1ED09C	07BE00EE	0167FC40	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01680BE0
(800)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01681B80	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(840)	07BE00EE	01682B20	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01683AC0	5D1ED09C	5D1ED09C
(880)	5D1ED09C	5D1ED09C	07BE00EE	01684A60	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01685A00
(920)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016869A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(960)	07BE00EE	01687940	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016888E0	5D1ED09C	5D1ED09C
(1000)	5D1ED09C	5D1ED09C	07BE00EE	01689880	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0168A820
(1040)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0168B7C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1080)	07BE00EE	0168C760	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0168D700	5D1ED09C	5D1ED09C
(1120)	5D1ED09C	5D1ED09C	07BE00EE	0168E6A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0168F640
(1160)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016905E0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1200)	07BE00EE	01691580	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01692520	5D1ED09C	5D1ED09C
(1240)	5D1ED09C	5D1ED09C	07BE00EE	016934C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01694460
(1280)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01695400	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1320)	07BE00EE	016963A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01697340	5D1ED09C	5D1ED09C
(1360)	5D1ED09C	5D1ED09C	07BE00EE	016982E0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	01699280
(1400)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0169A220	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1440)	07BE00EE	0169B1C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0169C160	5D1ED09C	5D1ED09C
(1480)	5D1ED09C	5D1ED09C	07BE00EE	0169D100	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0169E0A0
(1520)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	0169F040	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1560)	07BE00EE	0169FFE0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016A0F80	5D1ED09C	5D1ED09C
(1600)	5D1ED09C	5D1ED09C	07BE00EE	016A1F20	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016A2EC0
(1640)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016A3E60	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1680)	07BE00EE	016A4E00	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016A5DA0	5D1ED09C	5D1ED09C
(1720)	5D1ED09C	5D1ED09C	07BE00EE	016A6D40	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016A7CE0
(1760)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016A8C80	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1800)	07BE00EE	016A9C20	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016AABC0	5D1ED09C	5D1ED09C
(1840)	5D1ED09C	5D1ED09C	07BE00EE	016ABB60	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016ACB00
(1880)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016ADAA0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1920)	07BE00EE	016AEA40	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016AF9E0	5D1ED09C	5D1ED09C
(1960)	5D1ED09C	5D1ED09C	07BE00EE	016B0980	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016B1920
(2000)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016B28C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(2040)	07BE00EE	016B3860	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016B4800	5D1ED09C	5D1ED09C
(2080)	5D1ED09C	5D1ED09C	07BE00EE	016B57A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016B6740
(2120)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016B76E0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(2160)	07BE00EE	016B8680	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016B9620	5D1ED09C	5D1ED09C
(2200)	5D1ED09C	5D1ED09C	07BE00EE	016BA5C0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016BB560
(2240)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016BC500	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(2280)	07BE00EE	016BD4A0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016BE440	5D1ED09C	5D1ED09C

(2320)	5D1ED09C	5D1ED09C	07BE00EE	016BF3E0	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016C0380
(2360)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BE00EE	016C1320	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	522	522	2400	0	0	0	0	0	0

FILE 60 RECORD 522 LENGTH 2400BYTES

(0)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(40)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(80)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(120)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(160)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(200)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(240)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(280)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(320)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(360)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(400)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(440)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(480)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(520)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(560)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(600)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(640)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(680)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(720)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(760)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(800)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(840)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(880)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(920)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(960)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1000)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1040)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1080)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1120)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1160)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1200)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1240)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1280)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1320)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1360)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1400)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1440)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1480)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1520)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1560)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1600)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1640)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1680)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1720)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1760)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1800)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1840)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(1880)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(1920)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(1960)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(2000)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(2040)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(2080)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(2120)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(2160)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C
(2200)	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C
(2240)	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C
(2280)	07BF0010	036DFA9C	5D1ED09C	5D1ED09C	5D1ED09C	5D1ED09C	07BF0010	036DFA9C	5D1ED09C	5D1ED09C

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( 2320)   5D1ED09C  5D1ED09C  07BF0010  036DFA9C  5D1ED09C  5D1ED09C  5D1ED09C  5D1ED09C  07BF0010  036DFA9C
( 2360)   5D1ED09C  5D1ED09C  5D1ED09C  5D1ED09C  07BF0010  036DFA9C  5D1ED09C  5D1ED09C  5D1ED09C  5D1ED09C
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1983 1/16 915:58:59.23

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
60	522	523	2400	0	0	0	0	0	0

EOJ DUMP STOPPED AFTER FILE 60 # OF PERMANENT READ ERRORS 0

START TIME 03/29/90 16:11:00 STOP TIME 03/29/90 16:16:14

D79073 - File2.dat

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$EXE TPNRCF BS