#452

OAO-3

IOTA HERCULIS UV SPECTRAL ATLAS

72-065A-01C

ASUV-00004

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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IOTA HERCULIS UV SPECTRAL ATLAS

72-065A-01C ASUV-00004

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES
DR004913	DS004913	D037998	1 - 3

OAO-3

IOTA HERCULIS UV SPECTRAL ATLAS

72-065A-01C

These data are contained on one 9-track, 1600 BPI, binary magnetic tape created on an IBM 360 computer. The tape contains 3 files. File 1 is the second order spectrum; file 2 is the first order spectrum; and file 3 contains a program to read files 1 and 2 and list them. The spectral data are blocked at 10 logical blocks of 145 words per physical record. The first word of each logical block contains the number of sets of data (24, except for the last set of data) in the read. The format for the data is as follows:

WORD	VARIABLE NAME	DESCRIPTION
1	N	Number of sets of data in the following read
2 (N)	W	Wavelength in Angstroms of a data point
3 (N)	C	Corrected count rate for the wavelength point. (Scattered light has not been removed)
4 (N)	CS	Smoothed count rate computed at the wavelength point using a fourier smoother. (Scattered light has not been removed).
5 (N)	SL	Scattered light estimate derived by Rogerson and Upson.
6 (N)	CSN	Normalized smoothed count rates as displayed in the atlas with unity at the top of each plot.
7 (N)	SLN	SL normalized using the same normalization factors as were used on CS above to compute CSN.

These data are detailed in the paper "The Copernicus Ultra Violet Atlas of Iota Herculis." Walter L. Upson II and John B. Rogerson, Jr.; Astrophysical Journal Supplement series, Volume 42, Number 1, January, 1980.

D#	C#
D-37998	C-20902

```
ISV40 JOB ORIGIN FROM GROUP=LOCAL   , DSP=CR , DEVICE=RD2      , 00A, ASP 3.2.0

// JOB H62 G3433.TRIPLEU2 T=0.2 REG=100 P=20 PL=0 C=0 N=IHERREAD
ISP56
ISP50 LAST JOB READ IN WAS DECKOUT AT 09:28:47 ON 03/13/80 FOR READY BIN H62
ISP51 G3433.TRIPLEU2  TOTAL REMAINING: $2,652.43  TOTAL USED: $1,847.57
ISP52          DELAY USED: $358.42  NON-JOB USED: $9.37
ISP55 T20-6070  TOTAL REMAINING: $58,458.75
ISP56
// EXEC FORTGCLG
//FORT.SYSIN DD *
//GO.FT10F001 DD DSN=COPER.NICUS.IOTA.HERCULIS.ORDERTWO.SPECTRUM,
//   LABEL=(1,BLP),DISP=(OLD,KEEP),UNIT=TAPE9,VOL=SER=1869,
//   DCB=(RECFM=FB,LRECL=580,BLKSIZE=5800,DEN=3)
//GO.FT10F002 DD DSN=COPER.NICUS.IOTA.HERCULIS.ORDERONE.SPECTRUM,
//   LABEL=(2,BLP),DISP=(OLD,KEEP),UNIT=TAPE9,VOL=SER=1869,
//   DCB=(RECFM=FB,LRECL=580,BLKSIZE=5800,DEN=3)
//GO.FT10F003 DD DSN=COPER.NICUS.IOTA.HERCULIS.TAPEREAD.PROGRAM,
//   LABEL=(3,BLP),DISP=(OLD,KEEP),UNIT=TAPE9,VOL=SER=1869,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=4800,DEN=3)
/*
//


LOCATE':8085SYS5.FORTG1
AL80850F001/RES101000G
AR10201 GET T 1869  ,BL FOR JOB 8085(IHERREAD)


111658 AMDS01 JOB 8085 (IHERREAD) IN SETUP ON MAIN=PU
111658 AMDS02 STEPLIB  USING D RES101 ON 241
111658 AMDS02 FT10F001 MOUNT T 1869   ON 570,NL,NORING
111810  IHERREAD IEF403I IHERREAD STARTED    TIME=11.18.10  DATE=80.073  ON PU
111811  IHERREAD IEF234E D C90
111811  IHERREAD IEF234E D C93
111813 *IHERREAD*00 IECASP0 C90 IS IHERREAD U          FORT    SYSPRINT
111813 *IHERREAD*01 IECASP0 C94 IS IHERREAD            FORT    ASP10001
111817  IHERREAD IEC202E K C94,018085,NL,IHERREAD,FORT
111819  IHERREAD IEF234E D C90,ASPC90
111824 *IHERREAD*04 IECASP0 C90 IS IHERREAD U          LKED    SYSPRINT
111847  IHERREAD IEF234E D C90,ASPC90
111847  IHERREAD IEF234E D C96,ASPC96
111853 *IHERREAD*08 IECASP0 C90 IS IHERREAD A          GO      FT06F001
111853 *IHERREAD*IEC110D F 570,1869,IHERREAD,GO,
111853 *IHERREAD*09 IEC110D   COPER.NICUS.IOTA.HERCULIS.ORDERTWO.SPECTRUM
111857  IHERREAD IEC209I IHERREAD 1869   570 TR=000,TW=000,EG=000,CL=000,N=000,SIO=00091
111857 *IHERREAD*IEC110D F 570,1869,IHERREAD,GO,
111857 *IHERREAD*10 IEC110D   COPER.NICUS.IOTA.HERCULIS.ORDERONE.SPECTRUM
111857  IHERREAD IEC209I IHERREAD 1869   570 TR=000,TW=000,EG=000,CL=000,N=000,SIO=00011
111857 *IHERREAD*IEC110D F 570,1869,IHERREAD,GO,
```

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```
//  BUFNO=1)                                                                    ASPGEN
IEF142I - STEP WAS EXECUTED - COND CODE 0000
STEP ACCOUNTING STATISTICS -
 STEP STARTED      EXECUTION TIME        PAGES       CARDS      PLOT BLKS        CORE        I/O REQ      SVC CALLS
   11:18:10      0HR  0MIN  0.29SEC         5           0             0          100K           52          1,006

IEF142I - STEP WAS EXECUTED - COND CODE 0000
STEP ACCOUNTING STATISTICS -
 STEP STARTED      EXECUTION TIME        PAGES       CARDS      PLOT BLKS        CORE        I/O REQ      SVC CALLS
   11:18:18      0HR  0MIN  0.19SEC         1           0             0           88K          180          1,481

//GO.FT10F001 DD DSN=COPER.NICUS.IOTA.HERCULIS.ORDERTWO.SPECTRUM,
//   LABEL=(1,BLP),DISP=(OLD,KEEP),UNIT=TAPE9,VOL=SER=1869,
//   DCB=(RECFM=FB,LRECL=580,BLKSIZE=5800,DEN=3)
//GO.FT10F002 DD DSN=COPER.NICUS.IOTA.HERCULIS.ORDERONE.SPECTRUM,
//   LABEL=(2,BLP),DISP=(OLD,KEEP),UNIT=TAPE9,VOL=SER=1869,
//   DCB=(RECFM=FB,LRECL=580,BLKSIZE=5800,DEN=3)
//GO.FT10F003 DD DSN=COPER.NICUS.IOTA.HERCULIS.TAPEREAD.PROGRAM,
//   LABEL=(3,BLP),DISP=(OLD,KEEP),UNIT=TAPE9,VOL=SER=1869,
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=4800,DEN=3)
IEF142I - STEP WAS EXECUTED - COND CODE 0000
STEP ACCOUNTING STATISTICS -
 STEP STARTED      EXECUTION TIME        PAGES       CARDS      PLOT BLKS        CORE        I/O REQ      SVC CALLS
   11:18:46      0HR  0MIN  1.52SEC        11           0             0           56K          135          1,309

111903 AMDS09 JOB 8085 (IHERREAD) IN BREAKDOWN
```

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```
C     THIS PROGRAM IS INTENDED TO SERVE AS AN EXAMPLE FOR READING THE DATA
C     TAPE FOR "THE COPERNICUS ULTRAVIOLET ATLAS OF IOTA HERCULIS."
C     WALTER L. UPSON II AND JOHN B. ROGERSON, JR.:  ASTROPHYSICAL JOURNAL
C     SUPPLEMENT SERIES, VOLUME 42, NUMBER 1, JANUARY, 1980.
C
C     THE TAPE IS NINE-TRACK, 1600 BPI
C
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C
C     THE TAPE CONTAINS THREE FILES.  FILE ONE IS THE SECOND ORDER SPECTRUM
C     AND FILE NUMBER TWO IS THE FIRST ORDER SPECTRUM.
C     FILE THREE IS THIS PROGRAM.
C
C
C     THE FOLLOWING DIMENSION STATEMENTS DEFINE THE VARIABLES NEEDED FOR BOTH
C     READING THE TAPE AND WRITING OUT UNSCALED NUMBERS.
C
0001        DIMENSION IW(24),IC(24),ICS(24),ISL(24),ICSN(24),ISLN(24)
0002        DIMENSION W(24),C(24),CS(24),SL(24),CSN(24),SLN(24)
C
C
C     THIS DIMENSION STATEMENT IS FOR READING THE PROGRAM STORED ON FILE THREE
C
C
0003        DIMENSION CHAR(20)
C
C
C     THE FOLLOWING FORMAT IS USED FOR BOTH FILES.  NOTE THAT THIS AMOUNTS TO A
C     BINARY READ OF THE DATA.  ALL THE VARIABLES STORED ON THE TAPE ARE 4 BYTE
C     INTEGERS (INTEGER*4)
C     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
C     ALTHOUGH THIS FORM FOR TAPE DATA SEEMS SOMEWHAT ARTIFICIAL, IT IS USED TO
C     MAKE THE TAPE READABLE FOR AS MANY USERS AS POSSIBLE EVEN THOUGH THERE IS
C     A SLIGHT INCREASE IN COMPLEXITY IN THE READING PROGRAM TO RETURN THE DATA
C     TO THEIR ORIGINAL STATE.
C
0004      601 FORMAT(145A4)
C
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C     FILE NUMBER ONE -- THE SECOND ORDER SPECTRUM.
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C     THE VARIABLES IN FILE ONE ARE DEFINED AS FOLLOWS:
C        N:  THE NUMBER OF SETS OF DATA IN THE FOLLOWING READ
C        IW:  THE INTEGERIZED WAVELENGTH IN MILLI-ANGSTROMS.
C        IC:  THE CORRECTED COUNT RATE MULTIPLIED BY 10.0 AND INTEGERIZED.
```

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```
C          ICSN:  THE NORMALIZED SMOOTHED COUNT RATE (SEE CSN DISCUSSED AFTER
C                 STATEMENT 101 BELOW) MULTIPLIED BY 10000.0 AND INTEGERIZED.
C          ISLN:  THE NORMALIZED SCATTERED LIGHT ESTIMATE (SEE SLN DISCUSSED AFTER
C                 STATEMENT 101 BELOW) MULTIPLIED BY 10000.0 AND INTEGERIZED.
C
C     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
C
C     THIS PROGRAM RESTORES THE VARIABLES TO THEIR PROPER FORM AND ORDER OF
C     MAGNITUDE BEFORE PRINTING OUT THE DATA.  NOTE THE SCALE FACTORS PRESENT
C     IN THE CONVERSION STATEMENTS.
C     THE VARIABLES PRINTED OUT ARE THE SAME AS IN THE ATLAS.  THEY ARE
C     DISCUSSED BELOW WITH THE WRITE STATEMENT.
C
C
      WRITE(6,610)
  610 FORMAT(1H1,//,'      THESE ARE THE SECOND ORDER DATA FOR IOTA HERCULIS
     CULIS READ OFF THE DATA TAPE.'//)
C
C
C     NOW WE MUST DO REPEATED READS OF THE FILE TO OBTAIN ALL THE DATA.  EACH
C     READ OBTAINS "N" SETS OF DATA WHERE "N" IS ALWAYS = 24 EXCEPT FOR THE
C     LAST SET OF DATA.
C
C     THE COUNTERS IFILE AND NREAD ARE FOR BOOKKEEPING PURPOSES ONLY AND ARE
C     NOT NECESSARY FOR READING THE TAPE.
C
      IFILE = 1
      NREAD = 0
  100 CONTINUE
      READ(10,601,END=500) N,(IW(I),IC(I),ICS(I),ISL(I),ICSN(I),ISLN(I),
     A   I=1,N)
      NREAD = NREAD + 1
C
C
C     THIS LOOP CONVERTS THE SCALED AND INTEGERIZED NUMBERS ON TAPE FILE ONE
C     BACK TO THEIR CORRECT FORM AND MAGNITUDE.
C
C
      DO 101 J=1,N
      W(J) = IW(J)/1000.0
      C(J) = IC(J)/10.0
      CS(J) = ICS(J)/10.0
      SL(J) = ISL(J)/10.0
      CSN(J) = ICSN(J)/10000.0
      SLN(J) = ISLN(J)/10000.0
  101 CONTINUE
C
C
C     THE VARIABLES PRINTED OUT HAVE THE FOLLOWING MEANINGS AND ARE IN DIRECT
C     AGREEMENT WITH THE NUMBERS USED IN PREPARING AND PRESENTING THE ATLAS
C
```

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```
C              HAS NOT BEEN REMOVED FROM CS.
C          SL:  THE SCATTERED LIGHT ESTIMATE DERIVED BY ROGERSON AND UPSON AND
C               DESCRIBED IN DETAIL IN THE PAPER.
C          CSN:  THE NORMALIZED SMOOTHED COUNT RATES AS DISPLAYED IN THE ATLAS
C              WITH UNITY AT THE TOP OF EACH PLOT.
C          SLN:  SL NORMALIZED USING THE SAME NORMALIZATION FACTORS AS WERE USED
C              ON CS ABOVE TO COMPUTE CSN.
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C
C     FOR THE PURPOSES OF THIS EXAMPLE, WE WRITE ONLY EVERY TWENTIETH RECORD
C     OBVIOUSLY, THE MODULUS CONTROL OF THE WRITE STATEMENT BELOW MUST BE
C     REMOVED TO OBTAIN ALL THE DATA ON THE TAPE.
C
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C
      IF(MOD(NREAD,20).EQ.1)
     *WRITE(6,605) IFILE,NREAD,N,(W(I),C(I),CS(I),SL(I),CSN(I),SLN(I),
     A   I=1,N)
  605 FORMAT('  FILE # ',I1,'  READ # ',I4,'  N = ',I3,
     A   /,(3(F11.3,2F7.1,F6.1,2F6.3)))
C     IF(NREAD.GT.5) STOP                                              KO C
      GO TO 100
  500 CONTINUE
      WRITE(6,622) IFILE,NREAD
  622 FORMAT('   FINISHED FILE ',I3,'  WITH ',I6,'  RECORDS.')
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C     FILE NUMBER TWO -- THE FIRST ORDER SPECTRUM
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C     THE VARIABLES IN FILE TWO HAVE THE SAME MEANING AS IN FILE ONE
C
C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
C
C
C
      WRITE(6,611)
  611 FORMAT(1H1,//,'      THESE ARE THE DATA FOR THE FIRST ORDER SPECTRUM
     RUN OF IOTA HERCULIS.'//)
C
C
C     NOW WE MUST DO REPEATED READS OF THE FILE TO OBTAIN ALL THE DATA.  EACH
C     READ OBTAINS "N" SETS OF DATA WHERE 'N' IS ALWAYS = 24 EXCEPT FOR THE
C     LAST SET OF DATA.
C
```

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```
0030          200 CONTINUE
0031              READ(10,601,END=501) N,(IW(I),IC(I),ICS(I),ISL(I),ICSN(I),ISLN(I),
                 A   I=1,N)
0032              NREAD = NREAD + 1
            C
            C
            C     THIS LOOP CONVERTS THE SCALED AND INTEGERIZED NUMBERS ON TAPE FILE TWO
            C     BACK TO THEIR CORRECT FORM AND MAGNITUDE.
            C
            C
0033              DO 201 J=1,N
0034              W(J) = IW(J)/1000.0
0035              C(J) = IC(J)/10.0
0036              CS(J) = ICS(J)/10.0
0037              SL(J) = ISL(J)/10.0
0038              CSN(J) = ICSN(J)/10000.0
0039              SLN(J) = ISLN(J)/10000.0
0040          201 CONTINUE
            C
            C
            C     THIS WRITE STATEMENT GENERATES NUMBERS WITH THE SAME MEANING FOR FILE TWO
            C     AS THE WRITE STATEMENT ABOVE DOES FOR FILE ONE. AGAIN FOR THE PURPOSES OF
            C     THIS EXAMPLE, ONLY EVERY TWENTIETH RECORD IS PRINTED AS IN FILE ONE
            C
            C
0041              IF(MOD(NREAD,20).EQ.1)
                 *WRITE(6,605) IFILE,NREAD,N,(W(I),C(I),CS(I),SL(I),CSN(I),SLN(I),
                 A   I=1,N)
0042              GO TO 200
0043          501 CONTINUE
0044              WRITE(6,622) IFILE,NREAD
            C
            C
            C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
            C
            C     FILE NUMBER THREE -- CONTAINS THIS PROGRAM TO READ THE TAPE.
            C     NOTE THAT THE PROGRAM IS STORED IN STANDARD IBM ALPHA-NUMERIC FORMAT
            C     WHICH MAY MAKE IT DIFFICULT TO OBTAIN FROM THE TAPE ON SOME MACHINES
            C
            C     * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
            C
            C
0045              IFILE = 3
0046              NREAD = 0
0047              WRITE(6,614)
0048          614 FORMAT(1H1,' THIS IS THE TAPE READING PROGRAM.')
0049          300 CONTINUE
0050              READ(10,612,END=502) CHAR
0051          612 FORMAT(20A4)
0052              NREAD = NREAD + 1
0053              WRITE(6,613) NREAD,CHAR
```

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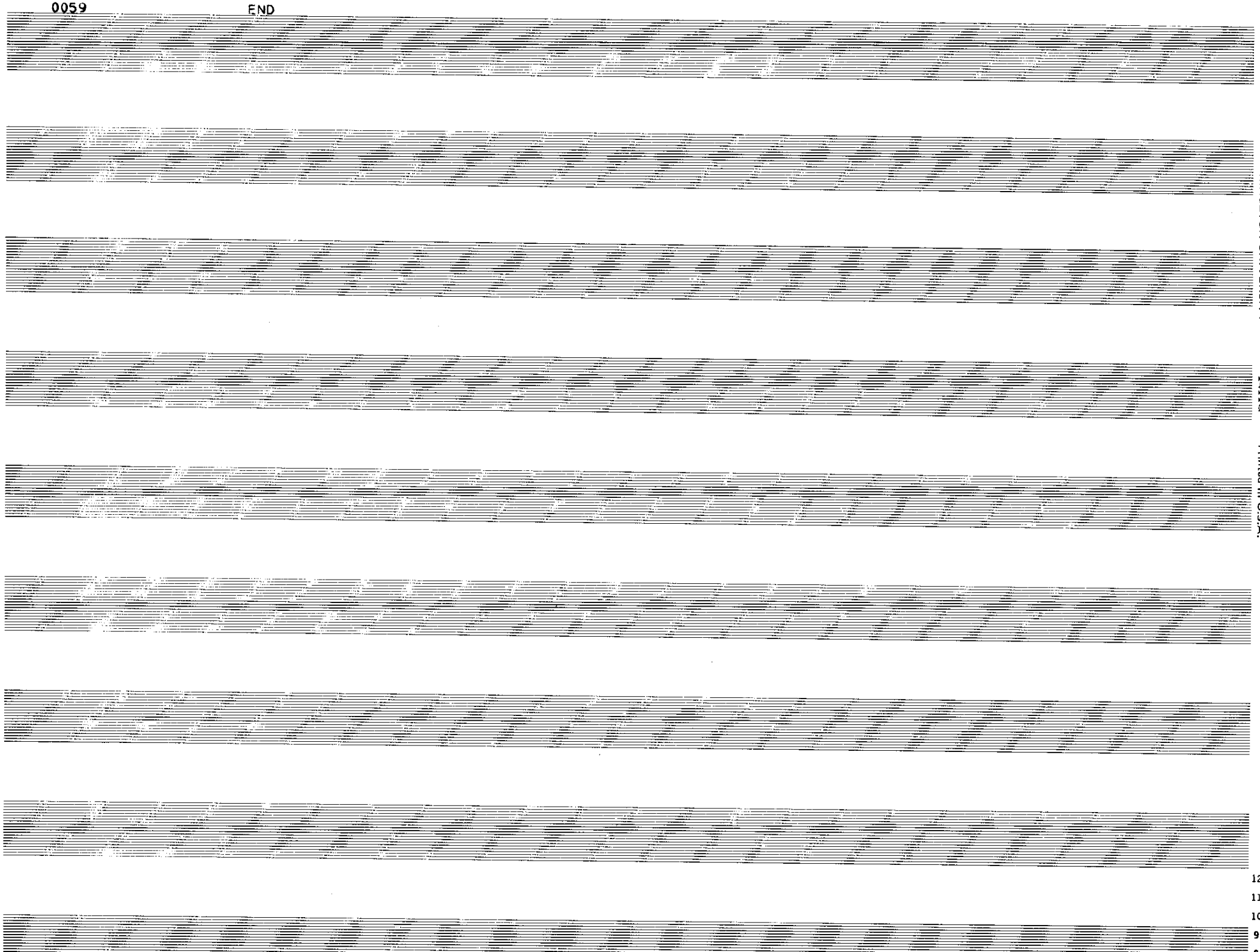
0059 END



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12
11
10
9

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
IDCOM#	C0								

SCALAR MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
IFILE	F4	NREAD	F8	N	FC	I	100	J	104

ARRAY MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
IW	108	IC	168	ICS	1C8	ISL	228	ICSN	288
ISLN	2E8	W	348	C	3A8	CS	408	SL	468
CSN	4C8	SLN	528	CHAR	588				

FORMAT STATEMENT MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
601	5D8	610	5DE	605	638	622	675	611	6A3
614	6F5	612	71F	613	725				

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LOCATION	STA NUM	LABEL	LOCATION	STA NUM	LABEL	LOCATION	STA NUM	LABEL
0007D4	5		0007C8	7		0007D0	8	
0007D8	10	100	00084C	11		000858	12	
000864	13		000888	14		0008AC	15	
0008D0	16		0008F4	17		000918	18	
00093C	19	101	000954	20		0009F4	22	
0009FA	24	500	000A20	26		000A34	28	
000A3C	29		000A44	31	200	000A88	32	
000AC4	33		000AD0	34		000AF4	35	
000B18	36		000B3C	37		000B60	38	
000B84	39		000BA8	40	201	000BC0	41	
000C60	42		000C66	44	501	000C8C	45	
000C94	46		000C9C	47		000CB0	50	300
000CD4	52		000CE0	53		000D08	55	
000D0E	57	502	000D34	58				

```
*OPTIONS IN EFFECT*  NOTERM,ID,EBCDIC,SOURCE,NOLIST,NODECK,LOAD,MAP,NOTEST
*OPTIONS IN EFFECT*  NAME = MAIN     , LINECNT =       58
*STATISTICS*    SOURCE STATEMENTS =       59,PROGRAM SIZE =      3394
*STATISTICS*  NO DIAGNOSTICS GENERATED
```

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MODULE MAP

CONTROL SECTION

NAME	ORIGIN	LENGTH
MAIN	00	D42
IHOECOMH*	D48	E30
FIOAP# *	1B78	624
IHOCOMH2*	21A0	9A5
IHOFCVTH*	2B48	CEA
IHOEFNTH*	3838	800
IHOEFIOS*	4038	118C
IHOFIOS2*	51C8	642
IHOUOPT *	5810	338
IHOERRM *	5B48	624
IHOFCONI*	6170	416
IHOFCONO*	6588	8B8
IHOUATBL*	6E40	638
IHOFTEN *	7478	220
IHOETRCH*	7698	2AE

ENTRY

NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
IBCOM#	D7C	FDIOCS#	E38	INTSWTCH	1AC0		
SEQDASD	2572						
ADCON#	2B48	FCVAOUTP	2BB4	FCVLOUTP	2BCC	FCVZOUTP	2BE4
FCVIOUTP	2BFC	FCVEOUTP	2C34	FCVCOUTP	2C34	ADCONI#	3338
ADCONO#	3354	INT6SWCH	3831				
ARITH#	3838	ADJSWTCH	3DCC				
FIOCS#	4038	FIOCSBEP	403E				
ERRMON	5B48	IHOERRE	5B60				
FQCONI#	6170						
FQCONO#	6588						
FTEN#	7478						
IHOTRCH	7698	ERRTRA	76A0				

ENTRY ADDRESS 00

TOTAL LENGTH 7948 (31048 DECIMAL)

****MAIN DOES NOT EXIST BUT HAS BEEN ADDED TO TEMPORARY DATA SET (87 TRACKS UNUSED)

AUTHORIZATION CODE IS 0.

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FILE # 1 READ # 1 N = 24

999.334	60.4	51.4	9.6	0.199	0.037	999.357	30.5	40.1	9.7	0.154	0.037	999.380	41.2	43.4	9.7	0.167	0.037
999.403	95.8	94.4	9.7	0.362	0.037	999.426	130.9	125.7	9.7	0.481	0.037	999.449	101.4	99.6	9.7	0.381	0.037
999.472	61.9	63.7	9.7	0.243	0.037	999.495	37.2	40.7	9.8	0.155	0.037	999.517	43.2	43.7	9.8	0.166	0.037
999.540	80.0	86.1	9.8	0.326	0.037	999.563	145.3	136.5	9.8	0.516	0.037	999.586	167.4	174.2	9.8	0.657	0.037
999.609	204.1	194.3	9.9	0.731	0.037	999.632	189.8	194.8	9.9	0.731	0.037	999.655	183.9	179.9	9.9	0.674	0.037
999.678	163.9	169.4	9.9	0.633	0.037	999.701	189.0	189.2	9.9	0.705	0.037	999.723	214.2	208.5	9.9	0.776	0.037
999.746	191.9	192.6	10.0	0.715	0.037	999.769	154.8	151.3	10.0	0.560	0.037	999.792	107.5	113.6	10.0	0.420	0.037
999.815	99.0	96.0	10.0	0.354	0.037	999.838	82.5	88.5	10.0	0.326	0.037	999.861	117.0	117.9	10.1	0.433	0.037

FILE # 1 READ # 21 N = 24

1010.334	39.9	39.7	18.5	0.071	0.033	1010.357	27.9	30.4	18.6	0.054	0.033	1010.380	29.8	28.5	18.6	0.051	0.033
1010.403	31.8	35.5	18.6	0.063	0.033	1010.426	51.7	49.4	18.6	0.088	0.033	1010.449	55.6	57.8	18.7	0.102	0.033
1010.472	67.4	68.3	18.7	0.121	0.033	1010.495	89.2	89.9	18.7	0.159	0.033	1010.518	111.0	109.8	18.7	0.194	0.033
1010.541	130.7	132.9	18.8	0.235	0.033	1010.563	156.4	154.6	18.8	0.273	0.033	1010.586	194.0	202.0	18.8	0.356	0.033
1010.609	259.4	245.9	18.8	0.433	0.033	1010.632	241.3	250.9	18.8	0.441	0.033	1010.655	270.7	264.0	18.9	0.463	0.033
1010.678	268.7	271.0	18.9	0.475	0.033	1010.701	284.8	289.9	18.9	0.508	0.033	1010.724	342.4	333.4	18.9	0.583	0.033
1010.747	334.3	335.7	19.0	0.586	0.033	1010.771	329.8	327.8	19.0	0.572	0.033	1010.793	305.4	300.6	19.0	0.524	0.033
1010.816	261.1	270.2	19.0	0.470	0.033	1010.840	296.2	289.4	19.1	0.503	0.033	1010.863	273.7	272.4	19.1	0.473	0.033

FILE # 1 READ # 41 N = 24

1021.254	122.5	126.3	30.0	0.139	0.033	1021.277	145.0	142.4	30.1	0.156	0.033	1021.300	126.6	122.7	30.1	0.134	0.033
1021.322	67.3	74.6	30.1	0.082	0.033	1021.345	71.3	78.1	30.1	0.085	0.033	1021.368	140.6	140.7	30.1	0.154	0.033
1021.390	199.9	197.7	30.2	0.216	0.033	1021.413	234.3	233.2	30.2	0.255	0.033	1021.436	256.6	257.6	30.2	0.281	0.033
1021.458	256.5	252.6	30.2	0.275	0.033	1021.481	238.8	246.1	30.3	0.268	0.033	1021.504	259.8	247.7	30.3	0.269	0.033
1021.527	193.2	196.9	30.3	0.214	0.033	1021.549	116.1	120.0	30.3	0.130	0.033	1021.572	99.9	110.2	30.4	0.120	0.033
1021.595	171.4	166.6	30.4	0.181	0.033	1021.618	171.4	162.4	30.4	0.176	0.033	1021.640	85.6	98.5	30.4	0.107	0.033
1021.663	110.2	119.2	30.5	0.129	0.033	1021.686	214.7	204.6	30.5	0.221	0.033	1021.699	223.4	234.8	30.5	0.254	0.033
1021.721	264.0	245.2	30.5	0.265	0.033	1021.744	199.5	213.1	30.5	0.230	0.033	1021.767	185.9	176.9	30.6	0.191	0.033

FILE # 1 READ # 61 N = 24

1032.125	95.1	108.5	40.1	0.087	0.032	1032.147	192.4	201.2	40.1	0.160	0.032	1032.170	387.9	390.8	40.1	0.312	0.032
1032.192	554.6	526.2	40.1	0.419	0.032	1032.215	526.4	542.4	40.1	0.432	0.032	1032.238	541.7	526.7	40.1	0.419	0.032
1032.260	508.8	525.7	40.1	0.418	0.032	1032.282	529.4	499.2	40.1	0.397	0.032	1032.305	354.6	361.8	40.2	0.288	0.032
1032.328	178.0	186.5	40.2	0.148	0.032	1032.350	133.6	156.8	40.2	0.124	0.032	1032.373	281.5	266.5	40.2	0.211	0.032
1032.395	331.4	333.1	40.2	0.264	0.032	1032.417	329.1	331.2	40.2	0.263	0.032	1032.440	446.9	477.6	40.2	0.378	0.032
1032.463	756.7	716.5	40.3	0.567	0.032	1032.485	775.2	782.5	40.3	0.619	0.032	1032.508	748.9	737.0	40.3	0.583	0.032
1032.530	689.7	697.4	40.3	0.551	0.032	1032.552	657.3	663.0	40.3	0.524	0.032	1032.575	675.1	672.7	40.3	0.531	0.032
1032.598	733.2	741.0	40.3	0.585	0.032	1032.620	791.1	769.6	40.3	0.607	0.032	1032.643	699.3	718.4	40.4	0.566	0.032

FILE # 1 READ # 81 N = 24

1042.955	1354.9	1371.8	50.2	0.876	0.032	1042.977	1376.8	1357.4	50.2	0.867	0.032	1043.000	1315.1	1326.4	50.3	0.847	0.032
1043.022	1323.9	1319.7	50.3	0.842	0.032	1043.045	1327.4	1326.4	50.3	0.846	0.032	1043.068	1323.0	1325.7	50.3	0.845	0.032
1043.090	1306.6	1293.0	50.3	0.824	0.032	1043.113	1232.7	1250.3	50.3	0.797	0.032	1043.135	1296.4	1293.1	50.4	0.824	0.032
1043.158	1353.2	1346.0	50.4	0.857	0.032	1043.180	1307.5	1294.7	50.4	0.824	0.032	1043.203	1129.3	1123.6	50.4	0.715	0.032
1043.226	880.6	899.1	50.4	0.572	0.032	1043.249	887.9	924.0	50.4	0.587	0.032	1043.271	1237.2	1220.3	50.5	0.775	0.032
1043.294	1440.9	1432.2	50.5	0.910	0.032	1043.317	1491.6	1480.2	50.5	0.940	0.032	1043.340	1369.4	1341.4	50.5	0.851	0.032
1043.362	992.6	1027.5	50.5	0.652	0.032	1043.385	888.6	909.4	50.6	0.577	0.032	1043.408	1098.5	1111.8	50.6	0.705	0.032
1043.430	1299.2	1262.0	50.6	0.800	0.032	1043.453	1188.8	1195.2	50.6	0.757	0.032	1043.476	998.2	974.5	50.6	0.617	0.032

FILE # 1 READ # 101 N = 24

1053.696	1575.2	1591.9	61.5	0.874	0.034	1053.718	1550.5	1522.6	61.5	0.836	0.034	1053.740	1420.5	1469.5	61.6	0.806	0.034
1053.762	1593.2	1559.3	61.6	0.855	0.034	1053.785	1662.6	1693.2	61.6	0.929	0.034	1053.807	1782.1	1740.8	61.6	0.955	0.034
1053.830	1679.1	1712.7	61.7	0.939	0.034	1053.852	1705.5	1678.5	61.7	0.920	0.034	1053.874	1660.3	1685.3	61.7	0.923	0.034
1053.896	1724.4	1701.8	61.8	0.932	0.034	1053.919	1660.6	1663.2	61.8	0.911	0.034	1053.942	1517.1	1485.7	61.8	0.813	0.034

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1064.647	244.8	264.5	71.0	0.131	0.035	1064.669	594.8	607.6	71.0	0.301	0.035	1064.691	1012.7	992.3	71.0	0.492	0.035
1064.713	1263.4	1273.0	71.1	0.631	0.035	1064.736	1437.9	1376.7	71.1	0.682	0.035	1064.758	1104.8	1118.8	71.1	0.554	0.035
1064.780	781.7	814.8	71.1	0.404	0.035	1064.803	944.0	977.7	71.1	0.484	0.035	1064.825	1401.0	1371.6	71.1	0.679	0.035
1064.847	1584.2	1576.2	71.1	0.781	0.035	1064.869	1672.0	1664.3	71.2	0.824	0.035	1064.891	1647.3	1617.5	71.2	0.801	0.035
FILE # 1	READ #	141	N =	24													
1075.049	1097.7	1084.7	75.4	0.509	0.035	1075.071	1603.2	1579.5	75.5	0.740	0.035	1075.093	1825.6	1793.1	75.5	0.841	0.035
1075.115	1824.1	1828.4	75.5	0.857	0.035	1075.137	1814.0	1804.7	75.5	0.846	0.035	1075.159	1690.1	1677.1	75.5	0.786	0.035
1075.181	1408.9	1378.2	75.5	0.646	0.035	1075.203	942.1	985.2	75.5	0.462	0.035	1075.225	803.5	814.4	75.5	0.381	0.035
1075.247	1053.9	1124.8	75.5	0.527	0.035	1075.269	1722.0	1629.9	75.5	0.763	0.035	1075.291	1814.0	1852.3	75.6	0.868	0.035
1075.313	1869.3	1822.0	75.6	0.853	0.035	1075.335	1743.3	1787.0	75.6	0.837	0.035	1075.357	1882.3	1861.7	75.6	0.872	0.035
1075.380	1944.5	1935.3	75.6	0.906	0.035	1075.402	1950.0	1952.3	75.6	0.914	0.035	1075.424	1952.3	1922.0	75.6	0.900	0.035
1075.446	1642.6	1618.0	75.6	0.757	0.035	1075.468	1105.6	1142.7	75.6	0.535	0.035	1075.490	924.8	927.7	75.7	0.434	0.035
1075.512	949.2	969.0	75.7	0.453	0.035	1075.534	1060.3	1052.4	75.7	0.492	0.035	1075.556	1121.0	1112.8	75.7	0.521	0.035
FILE # 1	READ #	161	N =	24													
1085.625	144.9	137.7	76.5	0.062	0.035	1085.647	127.9	131.9	76.5	0.060	0.035	1085.668	135.5	127.0	76.5	0.057	0.035
1085.690	92.0	94.2	76.5	0.043	0.035	1085.712	74.8	73.1	76.5	0.035	0.035	1085.734	113.9	103.6	76.5	0.047	0.034
1085.756	126.3	139.4	76.5	0.063	0.034	1085.778	212.5	192.7	76.5	0.087	0.034	1085.800	273.6	286.3	76.5	0.129	0.034
1085.822	401.0	376.1	76.5	0.170	0.034	1085.844	437.8	460.2	76.5	0.208	0.034	1085.866	646.6	628.2	76.5	0.284	0.034
1085.888	819.8	803.8	76.5	0.363	0.034	1085.910	857.8	847.2	76.5	0.382	0.034	1085.932	875.7	888.9	76.4	0.401	0.034
1085.954	1073.3	1057.0	76.4	0.477	0.034	1085.975	1149.1	1115.1	76.4	0.503	0.034	1085.997	913.6	903.5	76.4	0.408	0.034
1086.019	706.7	751.7	76.4	0.339	0.034	1086.041	945.6	948.7	76.4	0.428	0.034	1086.063	1333.9	1324.2	76.4	0.598	0.034
1086.085	1628.8	1607.2	76.4	0.725	0.034	1086.107	1705.3	1678.0	76.4	0.757	0.034	1086.129	1673.5	1701.8	76.4	0.768	0.034
FILE # 1	READ #	181	N =	24													
1096.116	1880.8	1845.7	77.5	0.821	0.034	1096.138	1736.1	1734.3	77.5	0.771	0.034	1096.160	1610.6	1646.4	77.5	0.732	0.034
1096.181	1871.2	1847.7	77.5	0.822	0.034	1096.203	2016.7	1993.2	77.5	0.886	0.034	1096.225	1997.0	2015.2	77.5	0.896	0.034
1096.247	2116.2	2096.0	77.5	0.932	0.034	1096.269	2021.6	1971.9	77.5	0.877	0.034	1096.291	1482.1	1506.5	77.5	0.670	0.034
1096.312	1104.5	1110.0	77.4	0.493	0.034	1096.334	1123.4	1202.8	77.4	0.535	0.034	1096.356	1716.5	1656.0	77.4	0.736	0.034
1096.378	1878.6	1854.7	77.4	0.825	0.034	1096.400	1650.3	1619.2	77.4	0.720	0.034	1096.422	1158.1	1159.5	77.4	0.515	0.034
1096.443	676.0	716.1	77.4	0.318	0.034	1096.465	755.2	814.1	77.4	0.362	0.034	1096.487	1480.2	1441.2	77.4	0.641	0.034
1096.509	1900.4	1855.1	77.4	0.825	0.034	1096.531	1812.9	1803.9	77.4	0.802	0.034	1096.552	1507.3	1470.2	77.4	0.654	0.034
1096.574	894.4	916.5	77.4	0.407	0.034	1096.596	429.5	453.2	77.4	0.201	0.034	1096.617	389.5	426.4	77.4	0.190	0.034
FILE # 1	READ #	201	N =	24													
1106.674	1714.6	1720.2	73.7	0.779	0.033	1106.696	1802.3	1783.9	73.7	0.808	0.033	1106.718	1756.9	1778.3	73.7	0.805	0.033
1106.739	1822.1	1820.5	73.7	0.824	0.033	1106.761	1867.0	1844.8	73.7	0.835	0.033	1106.783	1656.8	1647.2	73.7	0.746	0.033
1106.804	1312.7	1317.6	73.7	0.597	0.033	1106.826	1154.3	1201.1	73.7	0.544	0.033	1106.848	1419.5	1415.0	73.6	0.641	0.033
1106.870	1674.1	1648.4	73.6	0.747	0.033	1106.892	1660.8	1651.9	73.6	0.748	0.033	1106.913	1459.8	1451.6	73.6	0.658	0.033
1106.935	1225.7	1268.6	73.6	0.575	0.033	1106.957	1363.3	1375.4	73.6	0.623	0.033	1106.979	1690.4	1684.5	73.6	0.763	0.033
1107.000	1893.6	1873.0	73.6	0.849	0.033	1107.022	1861.2	1850.6	73.6	0.839	0.033	1107.043	1643.6	1637.5	73.6	0.742	0.033
1107.065	1356.7	1376.4	73.6	0.624	0.033	1107.087	1304.8	1337.9	73.6	0.607	0.033	1107.109	1517.7	1495.9	73.6	0.678	0.033
1107.130	1648.4	1675.6	73.6	0.760	0.033	1107.153	1818.0	1787.9	73.6	0.811	0.033	1107.174	1783.0	1805.7	73.6	0.819	0.033
FILE # 1	READ #	221	N =	24													
1117.135	1540.9	1524.2	71.3	0.729	0.034	1117.157	1030.6	1058.8	71.2	0.506	0.034	1117.179	827.6	879.3	71.2	0.420	0.034
1117.200	1188.5	1194.4	71.2	0.571	0.034	1117.222	1683.8	1658.3	71.2	0.793	0.034	1117.244	1925.1	1899.4	71.2	0.908	0.034
1117.265	1939.8	1941.3	71.2	0.929	0.034	1117.287	1966.3	1972.6	71.2	0.944	0.034	1117.309	1940.8	1887.2	71.2	0.903	0.034
1117.330	1532.6	1548.6	71.2	0.741	0.034	1117.352	1115.2	1102.9	71.2	0.528	0.034	1117.373	791.7	854.8	71.1	0.409	0.034
1117.395	988.0	999.0	71.1	0.478	0.034	1117.417	1381.0	1371.3	71.1	0.657	0.034	1117.438	1677.7	1671.6	71.1	0.800	0.034
1117.460	1811.5	1790.8	71.1	0.858	0.034	1117.482	1788.2	1801.8	71.1	0.863	0.034	1117.503	1778.3	1762.8	71.1	0.844	0.034
1117.525	1716.4	1711.1	71.1	0.820	0.034	1117.547	1651.4	1656.1	71.1	0.794	0.034	1117.569	1595.1	1569.5	71.0	0.752	0.034
1117.590	1482.9	1520.4	71.0	0.729	0.034	1117.612	1591.2	1569.0	71.0	0.752	0.034	1117.633	1656.8	1662.2	71.0	0.797	0.034
FILE # 1	READ #	241	N =	24													
1127.520	949.3	937.5	66.9	0.479	0.034	1127.541	1010.2	1019.0	66.9	0.521	0.034	1127.563	1113.6	1109.8	66.9	0.567	0.034

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1137.980	1262.6	1261.5	62.7	0.691	0.034	1138.001	1157.2	1131.6	62.7	0.620	0.034	1138.023	920.5	968.8	62.7	0.531	0.034
1138.044	1010.1	991.4	62.7	0.543	0.034	1138.065	1048.8	1046.0	62.7	0.573	0.034	1138.087	949.2	943.3	62.7	0.517	0.034
1138.109	799.8	809.0	62.7	0.443	0.034	1138.130	783.7	806.2	62.7	0.442	0.034	1138.152	908.1	898.6	62.7	0.492	0.034
1138.173	998.3	1007.9	62.7	0.552	0.034	1138.195	1155.1	1152.6	62.7	0.632	0.034	1138.216	1279.1	1274.7	62.7	0.699	0.034
1138.238	1314.3	1320.0	62.7	0.724	0.034	1138.259	1395.6	1398.6	62.7	0.767	0.034	1138.281	1497.9	1479.5	62.7	0.812	0.034
1138.302	1424.9	1436.6	62.7	0.788	0.034	1138.324	1379.6	1381.6	62.7	0.758	0.034	1138.345	1418.1	1420.4	62.7	0.780	0.034
1138.366	1390.6	1378.7	62.7	0.757	0.034	1138.388	1219.1	1229.5	62.7	0.675	0.034	1138.409	1212.2	1247.6	62.7	0.685	0.034

FILE # 1 READ # 281 N = 24

1148.263	794.6	840.7	58.3	0.493	0.034	1148.285	726.9	753.5	58.2	0.442	0.034	1148.306	971.8	971.7	58.2	0.570	0.034
1148.327	1209.1	1202.4	58.2	0.706	0.034	1148.349	1305.0	1295.1	58.2	0.760	0.034	1148.370	1296.9	1318.4	58.2	0.774	0.034
1148.392	1345.6	1328.4	58.2	0.780	0.034	1148.413	1266.5	1267.6	58.1	0.744	0.034	1148.434	1085.8	1084.6	58.1	0.637	0.034
1148.456	943.6	983.7	58.1	0.578	0.034	1148.477	1155.0	1167.8	58.1	0.686	0.034	1148.498	1420.3	1390.2	58.1	0.817	0.034
1148.520	1414.7	1427.3	58.1	0.839	0.034	1148.541	1417.8	1416.7	58.1	0.833	0.034	1148.562	1439.3	1441.5	58.0	0.847	0.034
1148.584	1443.2	1455.3	58.0	0.856	0.034	1148.605	1478.0	1460.6	58.0	0.859	0.034	1148.626	1397.6	1404.7	58.0	0.826	0.034
1148.648	1244.2	1230.1	58.0	0.723	0.034	1148.669	989.2	1009.0	58.0	0.593	0.034	1148.690	871.6	891.9	58.0	0.525	0.034
1148.712	920.5	921.7	57.9	0.542	0.034	1148.733	970.4	971.6	57.9	0.572	0.034	1148.754	958.0	952.6	57.9	0.561	0.034

FILE # 1 READ # 301 N = 24

1158.489	1106.0	1121.0	55.6	0.706	0.035	1158.511	1113.6	1122.5	55.6	0.707	0.035	1158.532	1256.5	1247.6	55.6	0.786	0.035
1158.553	1313.1	1309.2	55.6	0.824	0.035	1158.574	1371.9	1363.2	55.6	0.859	0.035	1158.596	1357.1	1348.2	55.6	0.849	0.035
1158.617	1241.6	1239.7	55.6	0.781	0.035	1158.638	1187.2	1216.1	55.6	0.766	0.035	1158.659	1308.7	1267.1	55.6	0.798	0.035
1158.681	1219.6	1254.8	55.6	0.791	0.035	1158.702	1265.7	1232.7	55.6	0.777	0.035	1158.723	1213.3	1239.3	55.6	0.781	0.035
1158.744	1282.4	1274.7	55.6	0.804	0.035	1158.766	1344.1	1332.5	55.6	0.840	0.035	1158.787	1312.0	1303.3	55.6	0.822	0.035
1158.808	1135.5	1120.5	55.6	0.707	0.035	1158.829	887.5	922.0	55.6	0.582	0.035	1158.851	919.3	917.6	55.6	0.579	0.035
1158.872	1058.6	1071.0	55.6	0.676	0.035	1158.893	1199.3	1164.4	55.6	0.735	0.035	1158.914	1158.0	1187.8	55.6	0.750	0.035
1158.936	1197.9	1162.6	55.6	0.734	0.035	1158.957	1037.4	1047.5	55.6	0.661	0.035	1158.978	904.9	898.7	55.6	0.568	0.035

FILE # 1 READ # 321 N = 24

1168.735	563.6	591.3	52.5	0.402	0.036	1168.757	683.7	709.7	52.5	0.483	0.036	1168.779	997.3	972.2	52.5	0.661	0.036
1168.800	1124.4	1120.8	52.5	0.762	0.036	1168.822	1196.3	1200.9	52.5	0.817	0.036	1168.843	1239.6	1213.5	52.4	0.826	0.036
1168.865	1124.6	1158.4	52.4	0.788	0.036	1168.886	1202.0	1184.7	52.4	0.806	0.036	1168.908	1215.5	1208.9	52.4	0.823	0.036
1168.929	1118.3	1130.9	52.4	0.770	0.036	1168.951	1049.1	1043.0	52.4	0.710	0.036	1168.972	1026.7	1053.2	52.4	0.717	0.036
1168.994	1149.4	1140.2	52.4	0.777	0.036	1169.015	1184.1	1175.2	52.4	0.801	0.036	1169.037	1170.9	1196.6	52.4	0.816	0.036
1169.059	1262.6	1227.0	52.4	0.836	0.036	1169.080	1128.0	1146.7	52.4	0.782	0.036	1169.102	1056.1	1061.8	52.4	0.724	0.036
1169.124	1041.6	1031.4	52.4	0.703	0.036	1169.145	955.1	964.2	52.4	0.658	0.036	1169.167	857.7	840.6	52.4	0.579	0.036
1169.188	686.2	705.7	52.3	0.482	0.036	1169.210	697.8	731.0	52.3	0.499	0.036	1169.231	933.0	906.7	52.3	0.619	0.036

FILE # 1 READ # 341 N = 24

1178.964	556.8	564.9	47.7	0.417	0.035	1178.986	701.5	703.0	47.7	0.518	0.035	1179.007	834.9	846.4	47.7	0.624	0.035
1179.028	962.6	944.6	47.7	0.697	0.035	1179.049	1003.1	1028.1	47.7	0.759	0.035	1179.071	1100.2	1069.2	47.7	0.789	0.035
1179.092	1022.4	1050.1	47.7	0.775	0.035	1179.114	1028.9	1009.4	47.6	0.745	0.035	1179.135	915.3	925.6	47.6	0.683	0.035
1179.156	779.8	785.8	47.6	0.580	0.035	1179.177	669.2	682.8	47.6	0.504	0.035	1179.198	673.7	688.8	47.6	0.509	0.035
1179.219	761.4	760.6	47.6	0.562	0.035	1179.241	831.1	844.3	47.6	0.624	0.035	1179.262	951.7	949.5	47.6	0.702	0.035
1179.283	1053.9	1059.3	47.5	0.783	0.035	1179.304	1078.7	1062.4	47.5	0.786	0.035	1179.325	979.2	1000.1	47.5	0.740	0.035
1179.347	985.0	978.8	47.5	0.724	0.035	1179.368	944.5	948.5	47.5	0.702	0.035	1179.389	893.0	906.3	47.5	0.671	0.035
1179.410	890.7	880.5	47.4	0.652	0.035	1179.431	813.9	819.0	47.4	0.606	0.035	1179.452	689.9	703.7	47.4	0.521	0.035

FILE # 1 READ # 361 N = 24

1189.083	830.0	830.2	39.5	0.662	0.031	1189.104	925.9	910.1	39.5	0.726	0.031	1189.125	928.7	926.0	39.5	0.739	0.031
1189.146	867.0	848.3	39.5	0.677	0.031	1189.167	690.5	699.2	39.4	0.558	0.031	1189.188	624.9	635.3	39.4	0.507	0.031
1189.209	697.9	691.9	39.4	0.552	0.031	1189.230	725.1	705.3	39.4	0.563	0.031	1189.251	623.9	645.9	39.4	0.516	0.031
1189.272	654.8	633.9	39.4	0.506	0.031	1189.293	652.6	676.9	39.3	0.541	0.031	1189.314	754.9	728.0	39.3	0.582	0.031
1189.335	765.3	781.8	39.3	0.625	0.031	1189.356	896.1	886.2	39.3	0.708	0.031	1189.377	967.3	953.8	39.3	0.763	0.031
1189.398	926.2	919.7	39.3	0.735	0.031	1189.419	865.0	873.3	39.2	0.698	0.031	1189.440	857.5	840.6	39.2	0.672	0.031
1189.461	822.7	847.4	39.2	0.678	0.031	1189.482	947.0	930.2	39.2	0.744	0.031	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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1199.627	438.3	437.2	32.6	0.377	0.028	1199.648	561.3	534.2	32.6	0.461	0.028	1199.669	513.9	526.4	32.5	0.455	0.028
FILE # 1	READ #	401	N =	24													
1209.276	226.2	224.5	30.2	0.209	0.028	1209.298	215.9	220.8	30.2	0.206	0.028	1209.319	234.5	229.7	30.2	0.214	0.028
1209.340	233.3	240.6	30.2	0.225	0.028	1209.361	268.4	261.8	30.2	0.244	0.028	1209.382	272.8	271.1	30.2	0.253	0.028
1209.403	244.3	246.3	30.2	0.230	0.028	1209.424	230.8	231.1	30.2	0.216	0.028	1209.445	255.9	259.8	30.2	0.243	0.028
1209.466	280.8	269.4	30.2	0.252	0.028	1209.487	228.9	236.3	30.1	0.221	0.028	1209.508	225.2	227.2	30.1	0.212	0.028
1209.529	244.7	238.0	30.1	0.222	0.028	1209.550	214.8	220.6	30.1	0.206	0.028	1209.571	212.3	210.2	30.1	0.196	0.028
1209.593	229.4	233.4	30.1	0.218	0.028	1209.614	261.0	257.4	30.1	0.241	0.028	1209.635	266.0	266.0	30.1	0.249	0.028
1209.656	264.9	264.9	30.1	0.248	0.028	1209.677	269.9	268.0	30.1	0.251	0.028	1209.698	268.7	261.3	30.1	0.244	0.028
1209.720	246.7	243.4	30.1	0.228	0.028	1209.741	254.3	263.5	30.0	0.247	0.028	1209.762	293.7	280.0	30.0	0.262	0.028
FILE # 1	READ #	421	N =	24													
1219.330	118.4	115.8	26.8	0.118	0.027	1219.350	110.3	111.3	26.8	0.113	0.027	1219.371	113.0	111.1	26.8	0.113	0.027
1219.392	102.5	102.0	26.8	0.104	0.027	1219.413	107.5	111.2	26.8	0.113	0.027	1219.434	138.7	132.1	26.8	0.135	0.027
1219.454	129.5	131.4	26.8	0.134	0.027	1219.475	127.8	128.0	26.8	0.131	0.027	1219.496	143.6	139.4	26.7	0.142	0.027
1219.516	126.7	126.9	26.7	0.129	0.027	1219.537	110.4	109.5	26.7	0.112	0.027	1219.558	124.1	128.8	26.7	0.132	0.027
1219.579	156.2	145.4	26.7	0.148	0.027	1219.600	128.8	136.8	26.7	0.140	0.027	1219.620	144.1	138.2	26.7	0.141	0.027
1219.641	145.8	146.4	26.7	0.150	0.027	1219.662	134.2	134.5	26.7	0.137	0.027	1219.683	136.0	133.7	26.7	0.137	0.027
1219.704	144.4	148.4	26.7	0.152	0.027	1219.724	154.7	143.6	26.7	0.147	0.027	1219.745	122.2	133.8	26.7	0.137	0.027
1219.765	148.1	135.4	26.6	0.138	0.027	1219.786	109.9	116.7	26.6	0.119	0.027	1219.807	104.9	102.6	26.6	0.105	0.027
FILE # 1	READ #	441	N =	24													
1229.315	424.1	413.8	24.1	0.468	0.027	1229.336	301.8	306.8	24.1	0.347	0.027	1229.357	188.2	184.0	24.1	0.208	0.027
1229.377	93.7	113.9	24.1	0.129	0.027	1229.398	123.2	119.6	24.1	0.135	0.027	1229.419	217.0	236.2	24.1	0.267	0.027
1229.440	428.2	413.7	24.1	0.468	0.027	1229.460	526.7	521.6	24.1	0.591	0.027	1229.481	541.3	543.0	24.1	0.615	0.027
1229.502	540.6	525.9	24.1	0.596	0.027	1229.523	422.2	431.0	24.1	0.488	0.027	1229.543	345.9	349.5	24.1	0.396	0.027
1229.564	386.7	409.1	24.1	0.464	0.027	1229.585	546.6	516.0	24.1	0.585	0.027	1229.606	537.4	562.9	24.1	0.638	0.027
1229.627	597.7	574.0	24.1	0.651	0.027	1229.648	553.5	572.8	24.1	0.650	0.027	1229.668	586.1	582.5	24.1	0.661	0.027
1229.689	591.7	581.1	24.1	0.660	0.027	1229.710	531.1	546.3	24.1	0.620	0.027	1229.731	536.6	529.9	24.1	0.602	0.027
1229.752	550.9	560.8	24.1	0.637	0.027	1229.772	577.4	565.0	24.1	0.642	0.027	1229.793	509.4	509.2	24.1	0.579	0.027
FILE # 1	READ #	461	N =	24													
1239.318	509.2	512.6	24.3	0.648	0.031	1239.339	606.9	598.2	24.3	0.756	0.031	1239.360	622.5	620.9	24.3	0.785	0.031
1239.381	630.1	633.2	24.3	0.801	0.031	1239.402	631.3	626.9	24.3	0.793	0.031	1239.422	612.1	613.2	24.3	0.776	0.031
1239.443	622.8	634.9	24.3	0.804	0.031	1239.464	665.8	639.4	24.3	0.810	0.031	1239.485	581.8	613.1	24.3	0.777	0.031
1239.506	653.1	630.2	24.3	0.798	0.031	1239.527	616.8	627.7	24.3	0.795	0.031	1239.548	621.9	623.3	24.3	0.790	0.031
1239.569	653.0	650.6	24.3	0.825	0.031	1239.590	648.6	638.8	24.3	0.810	0.031	1239.611	594.4	615.2	24.3	0.780	0.031
1239.632	648.3	622.5	24.3	0.790	0.031	1239.653	588.9	611.1	24.3	0.775	0.031	1239.674	618.0	605.6	24.3	0.769	0.031
1239.695	606.0	602.6	24.3	0.765	0.031	1239.716	564.4	577.3	24.4	0.733	0.031	1239.736	574.8	555.3	24.4	0.705	0.031
1239.757	551.7	576.9	24.4	0.733	0.031	1239.778	630.1	607.2	24.4	0.772	0.031	1239.799	608.8	613.2	24.4	0.779	0.031
FILE # 1	READ #	481	N =	24													
1249.271	579.9	578.9	25.4	0.814	0.036	1249.292	613.5	608.3	25.4	0.856	0.036	1249.313	598.3	605.9	25.4	0.853	0.036
1249.333	613.4	605.4	25.4	0.852	0.036	1249.354	604.4	616.4	25.4	0.868	0.036	1249.374	619.2	604.5	25.4	0.851	0.036
1249.395	567.6	579.6	25.4	0.816	0.036	1249.415	593.0	596.6	25.4	0.840	0.036	1249.436	624.1	609.1	25.4	0.858	0.036
1249.457	565.4	583.0	25.4	0.822	0.036	1249.477	557.1	537.8	25.4	0.758	0.036	1249.498	439.4	447.9	25.4	0.632	0.036
1249.519	345.7	354.6	25.4	0.500	0.036	1249.540	354.6	358.5	25.4	0.506	0.036	1249.560	434.1	440.3	25.4	0.621	0.036
1249.581	532.4	525.1	25.4	0.741	0.036	1249.602	577.2	576.4	25.4	0.814	0.036	1249.621	582.1	580.6	25.3	0.820	0.036
1249.642	561.0	567.6	25.3	0.801	0.036	1249.663	573.1	573.9	25.3	0.811	0.036	1249.683	614.1	616.3	25.3	0.871	0.036
1249.704	635.0	626.0	25.3	0.885	0.036	1249.724	571.9	576.0	25.3	0.814	0.036	1249.745	537.1	549.2	25.3	0.776	0.036
FILE # 1	READ #	501	N =	24													
1259.218	523.1	513.0	23.6	0.796	0.037	1259.239	537.1	556.6	23.6	0.864	0.037	1259.259	605.6	578.5	23.6	0.898	0.037
1259.280	556.3	575.0	23.6	0.892	0.037	1259.300	562.3	557.5	23.6	0.865	0.037	1259.321	543.9	539.5	23.6	0.838	0.037
1259.341	495.0	504.7	23.6	0.784	0.037	1259.362	496.9	494.7	23.6	0.768	0.037	1259.383	485.5	486.6	23.6	0.756	0.037
1259.403	482.3	490.6	23.6	0.762	0.037	1259.424	537.1	532.3	23.6	0.827	0.037	1259.444	516.3	496.8	23.6	0.772	0.037

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1269.391	429.2	432.7	21.0	0.741	0.036	1269.412	448.5	450.1	21.0	0.771	0.036	1269.432	476.0	471.4	21.0	0.808	0.036
1269.453	463.3	469.9	21.0	0.805	0.036	1269.473	485.3	491.1	21.0	0.825	0.036	1269.494	489.9	497.2	21.0	0.853	0.036
1269.515	509.5	497.9	20.9	0.854	0.036	1269.535	472.8	486.1	20.9	0.834	0.036	1269.556	462.8	450.7	20.9	0.773	0.036
1269.576	425.2	441.3	20.9	0.757	0.036	1269.597	482.2	482.1	20.9	0.827	0.036	1269.618	509.6	495.1	20.9	0.850	0.036

FILE # 1 READ # 541 N = 24

1278.999	397.3	391.6	18.1	0.738	0.034	1279.019	336.3	340.7	18.1	0.643	0.034	1279.040	310.7	312.7	18.1	0.590	0.034
1279.060	313.3	314.9	18.1	0.594	0.034	1279.081	320.0	314.1	18.1	0.593	0.034	1279.101	293.4	305.1	18.1	0.576	0.034
1279.122	344.1	337.2	18.1	0.637	0.034	1279.142	383.1	392.7	18.1	0.742	0.034	1279.162	440.5	425.2	18.0	0.803	0.034
1279.183	415.2	425.4	18.0	0.804	0.034	1279.203	420.7	409.3	18.0	0.773	0.034	1279.224	365.9	373.1	18.0	0.705	0.034
1279.244	336.2	336.6	18.0	0.636	0.034	1279.265	337.0	339.8	18.0	0.642	0.034	1279.285	357.2	358.4	18.0	0.678	0.034
1279.305	371.5	364.7	18.0	0.690	0.034	1279.326	359.3	374.9	18.0	0.709	0.034	1279.346	399.9	380.4	18.0	0.720	0.034
1279.367	367.3	388.3	18.0	0.735	0.034	1279.387	409.6	391.0	18.0	0.740	0.034	1279.407	360.0	369.2	18.0	0.699	0.034
1279.428	365.5	374.7	18.0	0.710	0.034	1279.448	432.8	417.5	18.0	0.791	0.034	1279.469	414.2	421.6	18.0	0.799	0.034

FILE # 1 READ # 561 N = 24

1288.800	364.2	369.1	15.6	0.776	0.033	1288.820	404.8	399.9	15.6	0.841	0.033	1288.841	400.3	400.0	15.6	0.841	0.033
1288.861	390.4	392.8	15.6	0.826	0.033	1288.881	406.5	406.2	15.6	0.855	0.033	1288.902	412.2	407.0	15.6	0.857	0.033
1288.922	392.3	398.7	15.6	0.839	0.033	1288.943	400.6	394.8	15.6	0.831	0.033	1288.963	384.3	387.0	15.6	0.815	0.033
1288.983	390.6	394.8	15.6	0.832	0.033	1289.004	407.3	396.8	15.6	0.836	0.033	1289.024	364.8	373.2	15.6	0.787	0.033
1289.045	374.0	375.9	15.6	0.792	0.033	1289.065	399.8	390.8	15.6	0.824	0.033	1289.085	370.3	376.7	15.6	0.795	0.033
1289.106	361.4	360.3	15.6	0.760	0.033	1289.126	360.1	357.4	15.5	0.754	0.033	1289.147	353.5	363.5	15.5	0.767	0.033
1289.167	399.4	389.1	15.5	0.821	0.033	1289.188	401.9	410.3	15.5	0.866	0.033	1289.208	435.7	428.5	15.5	0.905	0.033
1289.229	430.9	429.2	15.5	0.907	0.033	1289.249	376.3	367.1	15.5	0.776	0.033	1289.269	252.6	260.6	15.5	0.551	0.033

FILE # 1 READ # 581 N = 24

1298.630	72.8	77.3	13.8	0.183	0.033	1298.650	59.8	64.1	13.8	0.152	0.033	1298.671	63.4	57.9	13.7	0.137	0.033
1298.691	46.1	52.0	13.7	0.123	0.033	1298.713	70.9	73.2	13.7	0.173	0.033	1298.734	107.9	101.1	13.7	0.240	0.033
1298.754	98.2	102.7	13.7	0.244	0.033	1298.775	108.4	105.7	13.7	0.251	0.033	1298.795	96.6	92.3	13.7	0.219	0.033
1298.816	53.5	60.0	13.7	0.142	0.033	1298.837	54.8	53.6	13.7	0.127	0.033	1298.858	62.5	59.1	13.7	0.140	0.033
1298.878	38.7	43.4	13.7	0.103	0.033	1298.899	41.3	36.1	13.7	0.086	0.033	1298.920	28.2	31.4	13.7	0.079	0.033
1298.940	28.3	20.8	13.7	0.049	0.032	1298.961	5.8	16.2	13.7	0.039	0.032	1298.981	41.8	32.8	13.7	0.078	0.032
1299.003	47.4	55.5	13.7	0.132	0.032	1299.024	78.9	69.3	13.7	0.165	0.032	1299.044	67.5	72.7	13.7	0.173	0.032
1299.065	75.5	74.4	13.7	0.177	0.032	1299.086	89.5	89.1	13.7	0.212	0.032	1299.107	115.7	118.0	13.7	0.281	0.032

FILE # 1 READ # 601 N = 24

1308.454	259.0	256.6	11.7	0.688	0.031	1308.474	279.2	285.1	11.7	0.764	0.031	1308.494	307.8	296.4	11.7	0.794	0.031
1308.515	274.9	289.3	11.7	0.776	0.031	1308.535	295.8	286.2	11.7	0.768	0.031	1308.556	288.6	293.1	11.7	0.786	0.031
1308.576	290.0	294.0	11.7	0.789	0.031	1308.596	282.8	267.1	11.6	0.717	0.031	1308.617	219.1	247.6	11.6	0.665	0.031
1308.637	296.7	272.7	11.6	0.732	0.031	1308.658	259.4	272.9	11.6	0.733	0.031	1308.678	244.0	236.0	11.6	0.634	0.031
1308.698	208.5	218.5	11.6	0.587	0.031	1308.719	225.2	219.6	11.6	0.590	0.031	1308.739	216.7	224.7	11.6	0.604	0.031
1308.760	250.2	244.0	11.6	0.656	0.031	1308.780	244.6	247.7	11.6	0.666	0.031	1308.800	248.0	248.9	11.6	0.670	0.031
1308.821	252.2	249.7	11.6	0.672	0.031	1308.841	232.4	232.8	11.6	0.627	0.031	1308.861	205.4	208.8	11.6	0.562	0.031
1308.882	210.0	211.2	11.6	0.569	0.031	1308.902	224.2	222.8	11.6	0.600	0.031	1308.922	219.7	220.4	11.6	0.594	0.031

FILE # 1 READ # 621 N = 24

1318.223	211.3	202.4	10.0	0.610	0.030	1318.243	192.4	211.2	10.0	0.637	0.030	1318.263	270.5	254.5	10.0	0.768	0.030
1318.284	269.4	277.0	10.0	0.836	0.030	1318.304	292.2	288.3	10.0	0.870	0.030	1318.324	293.8	294.8	10.0	0.890	0.030
1318.344	293.2	288.4	10.0	0.871	0.030	1318.365	268.3	279.5	10.0	0.844	0.030	1318.385	291.0	274.3	10.0	0.829	0.030
1318.405	244.0	262.5	9.9	0.793	0.030	1318.426	266.9	254.9	9.9	0.770	0.030	1318.446	250.1	255.4	9.9	0.772	0.030
1318.466	273.3	279.3	9.9	0.845	0.030	1318.486	305.3	287.4	9.9	0.869	0.030	1318.507	241.0	256.7	9.9	0.777	0.030
1318.527	260.2	254.9	9.9	0.771	0.030	1318.547	281.5	281.4	9.9	0.852	0.030	1318.568	269.0	266.7	9.9	0.807	0.030
1318.588	266.8	272.7	9.9	0.826	0.030	1318.608	300.3	294.4	9.9	0.892	0.030	1318.629	280.3	277.5	9.9	0.841	0.030
1318.649	269.7	286.5	9.9	0.868	0.030	1318.669	345.5	321.0	9.9	0.973	0.030	1318.690	286.3	302.1	9.9	0.916	0.030

FILE # 1 READ # 641 N = 24

1327.987	213.8	212.7	8.7	0.714	0.029	1328.018	221.9	218.5	8.7	0.733	0.029	1328.038	202.7	206.5	8.7	0.693	0.029

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1337.769	175.2	176.1	8.0	0.639	0.029	1337.789	172.5	174.1	8.0	0.639	0.029	1337.809	172.5	174.1	8.0	0.639	0.029
1337.829	180.0	179.2	8.0	0.663	0.029	1337.849	171.6	172.7	8.0	0.639	0.029	1337.870	172.5	176.2	8.0	0.652	0.029
1337.890	186.6	181.2	8.0	0.671	0.029	1337.910	178.7	189.5	8.0	0.702	0.029	1337.930	211.4	199.3	8.0	0.738	0.029
1337.950	183.0	191.0	8.0	0.707	0.029	1337.970	177.0	172.9	8.0	0.641	0.029	1337.991	156.9	160.9	8.0	0.596	0.029
1338.011	158.3	158.9	8.0	0.589	0.029	1338.031	176.9	177.6	8.0	0.658	0.029	1338.051	183.0	181.4	8.0	0.672	0.029
1338.072	160.5	157.7	8.0	0.585	0.029	1338.092	141.2	156.3	7.9	0.580	0.029	1338.112	190.1	165.8	7.9	0.615	0.029
1338.118	159.0	164.3	7.9	0.610	0.029	1338.138	145.5	156.1	7.9	0.579	0.029	1338.158	178.3	165.4	7.9	0.614	0.029
1338.178	171.0	180.5	7.9	0.670	0.029	1338.198	183.0	178.2	7.9	0.662	0.029	1338.218	174.7	174.8	7.9	0.649	0.029

FILE # 1 READ # 681 N = 24

1347.386	194.8	200.5	7.4	0.819	0.030	1347.407	195.0	188.3	7.4	0.770	0.030	1347.427	181.0	186.1	7.4	0.761	0.030
1347.447	199.4	199.1	7.4	0.814	0.030	1347.467	212.0	204.0	7.4	0.834	0.030	1347.487	184.9	191.6	7.4	0.784	0.030
1347.508	183.6	180.6	7.4	0.739	0.030	1347.528	187.0	187.3	7.4	0.766	0.030	1347.549	192.6	195.8	7.4	0.802	0.030
1347.569	197.6	186.0	7.4	0.762	0.030	1347.589	158.5	173.1	7.4	0.709	0.030	1347.609	188.8	179.5	7.4	0.735	0.030
1347.630	199.0	202.0	7.4	0.828	0.030	1347.650	211.2	212.1	7.4	0.869	0.030	1347.670	211.4	200.1	7.4	0.820	0.030
1347.690	170.7	188.3	7.4	0.772	0.030	1347.711	207.9	191.3	7.4	0.785	0.030	1347.731	185.2	196.0	7.4	0.804	0.030
1347.751	199.7	195.9	7.4	0.804	0.030	1347.772	203.8	202.4	7.4	0.831	0.030	1347.792	216.8	223.4	7.4	0.917	0.030
1347.812	239.1	226.8	7.4	0.931	0.030	1347.833	198.5	203.9	7.4	0.838	0.030	1347.853	175.7	181.3	7.4	0.745	0.030

FILE # 1 READ # 701 N = 24

1357.059	147.2	160.1	6.9	0.734	0.032	1357.079	180.1	166.9	6.9	0.766	0.032	1357.099	145.9	149.1	6.9	0.684	0.032
1357.119	134.7	141.7	6.9	0.650	0.032	1357.139	157.5	142.0	6.9	0.652	0.032	1357.159	109.1	121.8	6.9	0.559	0.032
1357.179	110.3	105.0	6.9	0.482	0.032	1357.199	113.6	116.4	6.9	0.535	0.032	1357.219	144.6	147.3	6.9	0.677	0.032
1357.239	177.0	168.4	6.9	0.774	0.032	1357.259	156.3	157.4	6.9	0.724	0.032	1357.279	137.6	144.1	6.9	0.663	0.032
1357.299	165.9	158.0	6.9	0.727	0.032	1357.319	161.7	166.4	6.9	0.766	0.032	1357.341	159.1	153.9	6.9	0.709	0.032
1357.361	142.4	146.9	6.9	0.676	0.032	1357.381	159.0	160.6	6.9	0.740	0.032	1357.401	186.5	180.1	6.9	0.830	0.032
1357.422	170.7	175.4	6.9	0.808	0.032	1357.442	166.2	160.8	6.9	0.741	0.032	1357.462	161.6	169.8	6.9	0.783	0.032
1357.482	175.0	165.3	6.9	0.762	0.032	1357.503	143.0	149.0	6.9	0.687	0.032	1357.523	158.1	164.3	6.9	0.758	0.032

FILE # 1 READ # 721 N = 24

1366.712	104.8	109.8	6.6	0.572	0.034	1366.732	141.7	137.4	6.6	0.715	0.034	1366.752	143.8	140.8	6.6	0.733	0.034
1366.772	120.9	130.6	6.6	0.680	0.034	1366.792	141.5	131.9	6.6	0.687	0.034	1366.812	125.3	133.5	6.6	0.696	0.034
1366.832	134.8	135.3	6.6	0.705	0.034	1366.852	144.2	136.5	6.6	0.712	0.034	1366.872	126.9	142.6	6.6	0.744	0.034
1366.892	169.6	154.4	6.6	0.806	0.034	1366.912	143.7	152.3	6.6	0.795	0.034	1366.932	140.7	139.2	6.6	0.727	0.034
1366.952	133.1	129.0	6.6	0.674	0.034	1366.972	104.4	111.3	6.6	0.582	0.034	1366.992	96.2	90.1	6.6	0.471	0.034
1367.012	76.3	82.4	6.6	0.431	0.034	1367.032	72.2	70.3	6.6	0.367	0.034	1367.052	68.1	68.7	6.6	0.359	0.034
1367.072	79.4	85.4	6.6	0.447	0.034	1367.092	106.4	94.7	6.6	0.495	0.034	1367.112	75.6	89.4	6.6	0.463	0.034
1367.132	109.7	101.6	6.6	0.532	0.034	1367.151	116.3	119.7	6.6	0.627	0.034	1367.171	109.7	105.7	6.6	0.553	0.034

FILE # 1 READ # 741 N = 24

1376.355	139.4	125.5	6.2	0.746	0.037	1376.375	124.3	131.6	6.2	0.783	0.037	1376.396	132.7	127.8	6.2	0.760	0.037
1376.416	123.6	126.6	6.2	0.753	0.037	1376.436	122.1	119.4	6.2	0.710	0.037	1376.456	119.6	123.5	6.2	0.735	0.037
1376.476	130.8	126.3	6.2	0.752	0.037	1376.497	108.5	107.6	6.2	0.641	0.037	1376.517	101.3	112.5	6.2	0.670	0.037
1376.537	144.6	129.2	6.2	0.770	0.037	1376.557	111.7	123.6	6.2	0.737	0.037	1376.578	130.9	127.3	6.2	0.759	0.037
1376.598	131.8	125.6	6.2	0.749	0.037	1376.619	96.5	106.2	6.2	0.634	0.037	1376.639	100.8	96.7	6.2	0.577	0.037
1376.659	106.6	105.3	6.2	0.629	0.037	1376.679	100.3	110.3	6.2	0.659	0.037	1376.700	135.7	119.3	6.2	0.713	0.037
1376.720	105.6	125.7	6.2	0.751	0.037	1376.740	150.9	132.1	6.2	0.790	0.037	1376.761	114.0	126.4	6.2	0.756	0.037
1376.781	118.8	111.4	6.2	0.666	0.037	1376.801	91.1	96.2	6.2	0.576	0.037	1376.822	94.7	97.0	6.2	0.580	0.037

FILE # 1 READ # 761 N = 24

1386.060	96.8	94.8	5.8	0.643	0.040	1386.080	88.1	90.9	5.8	0.617	0.040	1386.100	89.9	92.9	5.8	0.631	0.040
1386.120	105.9	97.3	5.8	0.661	0.040	1386.140	75.1	87.2	5.8	0.593	0.040	1386.161	84.5	70.1	5.8	0.477	0.040
1386.181	53.5	73.3	5.8	0.499	0.040	1386.201	106.6	91.1	5.8	0.620	0.040	1386.221	87.4	94.8	5.8	0.645	0.040
1386.241	98.2	100.2	5.8	0.682	0.040	1386.261	116.1	107.5	5.8	0.732	0.040	1386.281	88.1	96.9	5.8	0.660	0.040
1386.301	90.1	85.8	5.8	0.584	0.040	1386.321	92.5	95.8	5.8	0.653	0.040	1386.341	98.8	97.4	5.8	0.664	0.040
1386.361	93.8	94.2	5.8	0.642	0.040	1386.382	97.9	100.3	5.8	0.684	0.040	1386.401	105.5	102.4	5.8	0.699	0.040
1386.421	96.7	88.8	5.8	0.670	0.040	1386.441	96.4	97.3	5.8	0.664	0.040	1386.461	99.1	95.7	5.8	0.653	0.040

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1396.089	95.4	93.4	5.5	0.727	0.043	1396.109	82.2	79.4	5.5	0.618	0.043	1396.128	51.0	55.9	5.5	0.435	0.043

FILE # 1 READ # 801 N = 24

1405.265	75.5	81.3	5.3	0.721	0.047	1405.285	83.3	73.3	5.3	0.650	0.047	1405.305	58.6	70.6	5.3	0.626	0.047
1405.325	86.3	76.3	5.3	0.677	0.047	1405.345	73.8	78.8	5.3	0.699	0.047	1405.365	75.4	72.6	5.3	0.645	0.047
1405.385	67.1	66.9	5.3	0.594	0.047	1405.405	61.1	63.2	5.3	0.561	0.047	1405.426	61.0	59.1	5.3	0.526	0.047
1405.446	64.8	68.0	5.3	0.605	0.047	1405.466	84.6	82.3	5.3	0.732	0.047	1405.486	89.2	88.0	5.3	0.783	0.047
1405.506	88.6	90.2	5.3	0.803	0.047	1405.526	94.0	92.6	5.3	0.824	0.047	1405.547	90.2	89.6	5.3	0.798	0.047
1405.567	86.2	89.6	5.3	0.798	0.047	1405.587	98.5	91.2	5.3	0.813	0.047	1405.607	61.3	65.4	5.3	0.583	0.047
1405.628	44.3	44.5	5.3	0.397	0.047	1405.648	51.6	56.5	5.3	0.504	0.047	1405.668	84.8	77.0	5.3	0.687	0.047
1405.689	72.9	80.9	5.3	0.723	0.047	1405.709	90.6	80.4	5.3	0.718	0.047	1405.729	67.8	76.9	5.3	0.687	0.047

FILE # 1 READ # 821 N = 24

1414.889	53.0	55.4	5.1	0.580	0.053	1414.909	59.4	58.1	5.1	0.609	0.053	1414.929	67.6	68.3	5.1	0.716	0.053
1414.949	73.7	72.1	5.1	0.756	0.053	1414.969	67.2	66.3	5.1	0.696	0.053	1414.989	60.5	63.7	5.1	0.669	0.053
1415.009	70.5	65.7	5.1	0.690	0.053	1415.029	57.6	61.5	5.1	0.646	0.053	1415.049	59.0	55.6	5.1	0.584	0.053
1415.069	52.2	55.0	5.1	0.578	0.053	1415.089	57.3	55.2	5.1	0.581	0.053	1415.109	54.6	56.0	5.1	0.589	0.053
1415.129	64.2	63.8	5.1	0.672	0.053	1415.149	70.6	69.2	5.1	0.729	0.053	1415.169	65.6	66.0	5.1	0.696	0.054
1415.189	62.3	62.8	5.1	0.662	0.054	1415.209	66.0	64.2	5.1	0.677	0.054	1415.229	60.1	61.1	5.1	0.645	0.054
1415.249	48.6	48.4	5.1	0.510	0.054	1415.269	52.3	53.6	5.1	0.566	0.054	1415.289	73.3	74.8	5.1	0.790	0.054
1415.309	79.8	69.2	5.1	0.731	0.054	1415.330	33.9	47.4	5.1	0.501	0.054	1415.350	62.2	53.8	5.1	0.569	0.054

FINISHED FILE 1 WITH 838 RECORDS.

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FILE # 2 READ # 1 N = 24

1417.859	149.8	148.1	87.4	0.433	0.255	1417.912	198.7	198.5	87.3	0.581	0.255	1417.965	244.0	246.1	87.3	0.720	0.255
1418.017	252.7	250.5	87.2	0.733	0.255	1418.070	268.2	271.0	87.2	0.794	0.255	1418.123	240.7	246.9	87.2	0.723	0.255
1418.176	244.9	247.0	87.1	0.724	0.255	1418.228	232.3	230.9	87.1	0.677	0.255	1418.281	270.2	272.2	87.0	0.799	0.255
1418.334	273.4	271.7	87.0	0.797	0.255	1418.386	292.5	294.2	86.9	0.864	0.255	1418.439	295.9	294.6	86.9	0.865	0.255
1418.492	263.1	263.6	86.9	0.775	0.255	1418.544	275.0	274.8	86.8	0.808	0.255	1418.598	213.8	213.8	86.8	0.629	0.255
1418.650	203.8	204.2	86.7	0.601	0.255	1418.703	244.3	243.4	86.7	0.716	0.255	1418.756	254.5	255.9	86.7	0.754	0.255
1418.808	266.4	264.6	86.6	0.780	0.255	1418.861	236.9	238.7	86.6	0.703	0.255	1418.913	238.5	238.6	86.5	0.698	0.255
1418.966	255.5	257.3	86.5	0.759	0.255	1419.019	232.0	230.2	86.4	0.679	0.255	1419.071	233.4	234.8	86.4	0.693	0.255

FILE # 2 READ # 21 N = 24

1443.085	227.7	231.7	70.6	0.847	0.258	1443.138	232.8	229.1	70.6	0.838	0.258	1443.191	207.0	210.1	70.5	0.769	0.258
1443.244	209.7	207.4	70.5	0.760	0.258	1443.297	219.6	221.3	70.4	0.811	0.258	1443.350	234.1	233.1	70.4	0.855	0.258
1443.403	247.0	247.1	70.4	0.907	0.258	1443.456	220.4	220.9	70.3	0.811	0.258	1443.509	219.4	218.0	70.3	0.800	0.258
1443.562	230.4	232.6	70.3	0.855	0.258	1443.615	245.9	242.9	70.2	0.893	0.258	1443.668	238.8	242.6	70.2	0.892	0.258
1443.721	217.0	212.6	70.2	0.782	0.258	1443.774	189.4	194.3	70.1	0.715	0.258	1443.828	252.7	247.3	70.1	0.911	0.258
1443.881	266.2	271.6	70.1	1.001	0.258	1443.934	225.9	220.1	70.0	0.812	0.258	1443.987	239.4	245.3	70.0	0.905	0.258
1444.040	201.8	195.8	70.0	0.723	0.258	1444.093	174.7	181.0	69.9	0.669	0.258	1444.146	231.6	225.4	69.9	0.833	0.258
1444.199	213.0	219.2	69.9	0.810	0.258	1444.253	245.2	239.2	69.8	0.885	0.258	1444.306	219.0	224.9	69.8	0.832	0.258

FINISHED FILE 2 WITH 40 RECORDS.

PRINCETON UNIVERSITY 1411G Printed in U.S.A.

(0)	00000018	000F3FA6	0000025C	00000202	00000060	0000007C4	00000175	000F3FBD	00000131	00000191	
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(80)	000003BE	000003B0	00000061	00000E27	00000174	000F4002	00000510	000004E9	00000061	0000012CF	
(120)	00000174	000F4019	000003F6	000003E4	00000061	00000EE0	00000174	000F4030	0000026B	00000270	
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(200)	000001B0	000001B5	00000062	0000067A	00000173	000F4074	00000320	0000035D	00000062	00000CBC	
(240)	00000173	000F408B	000005AD	00000555	00000062	00001428	00000173	000F40A2	0000068A	00000CCE	
(280)	00000062	000019A9	00000173	000F40B9	000007F9	00000797	00000063	00001C8E	00000173	000F40D0	
(320)	0000076A	00000790	00000063	00001C8F	00000173	000F40E7	0000072F	00000707	00000063	00001A50	
(360)	00000172	000F40FE	00000667	00000690	00000063	00001BB9	00000172	000F4115	00000762	00000764	
(400)	00000063	00001B8F	00000172	000F412B	00000850	00000825	00000063	00001E4E	00000172	000F4142	
(440)	0000077F	00000786	00000064	00001BED	00000172	000F4159	000006CC	000005E9	00000064	000015E5	
(480)	00000172	000F4170	00000433	00000470	00000064	00001D65	00000172	000F4187	000003DE	00000300	
(520)	00000064	00000DD5	00000171	000F419E	00000339	00000375	00000064	00000CB9	00000171	000F41B5	
(560)	00000492	0000049B	00000065	00001DE7	00000171	00000018	000F41CC	00000654	00000621	00000065	
(600)	00001675	00000171	000F41E2	00000690	0000069E	00000065	00001830	00000171	000F41F9	0000063C	
(640)	000005F9	00000065	00001CA	00000171	000F4210	00000485	000005200	00000065	00001202	00000171	
(680)	000F4228	00000665	00000632	00000065	0000167F	00000171	000F423F	00000777	0000078F	00000066	
(720)	00001B64	00000170	000F4255	00000822	000007E6	00000066	00001C91	00000170	000F426C	00000781	
(760)	0000078B	00000066	00001B38	00000170	000F4283	00000645	00000633	00000066	00001651	00000170	
(800)	000F429A	000004E2	00000506	00000066	00001200	00000170	000F42B1	000004E7	000004F4	00000067	
(840)	00001102	00000170	000F42C8	00000518	000004F9	00000067	00001CA	00000170	000F42DF	00000 4E3	
(880)	00000528	00000067	00001274	00000016F	000F42F6	00006A1	0000065E	00000067	00016AE	00000016F	
(920)	000F430D	00000661	00000646	00000067	0000164C	00000016F	000F4324	00000479	00000493	00000067	
(960)	00001C3B	00000016F	000F433B	000003EB	00000401	00000068	000000E2C	0000016F	000F4352	000003FF	
(1000)	000003F2	00000068	00000DF0	0000016F	000F4369	00000043A	00000485	00000068	00000FED	00000016F	
(1040)	000F4380	00000657	000005F5	00000068	00001AF5	00000016F	000F4397	00000061A	00000630	00000068	
(1080)	000015E3	0000016E	000F43AE	00000058E	00000054F	00000069	00001299	00000016E	000F43C5	000003D6	
(1120)	00000041F	00000069	00000E68	0000016E	000F43DC	00000C3FE	000004C2	00000069	00000DFA	00000016E	
(1160)	00000018	000F43F3	000004EE	000004BF	00000069	00001C83	0000016E	000F440A	000003A9	00000394	
(1200)	00000069	00000C6F	0000016E	000F4421	000001C2	00000201	0000006A	00000F2	0000016E	000F4438	
(1240)	00000239	0000024E	0000006A	000007F9	0000016E	000F444F	00000457	00000473	0000006A	00000F5C	
(1280)	0000016D	000F4466	00000677	00000629	0000006A	00001539	0000016D	000F447D	00000703	00000751	
(1320)	0000006A	00001926	0000016D	000F4494	000008E5	00000884	0000006A	00001D37	0000016D	00 F44AB	
(1360)	00000088B	000008CA	0000006B	00001E16	0000016D	000F44C3	000009C0	00000BD3	0000006B	00001E24	
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(1440)	0000006B	00001CCC	0000016D	000F4508	00000756	00000 7A9	0000006B	00001AC4	0000016C	000F451F	
(1480)	00000831	000007ED	0000006C	00001ADA	0000016C	000F4536	00000717	000006FF	0000006C	000017A8	
(1520)	0000016C	000F454D	00000456	0000046B	0000006C	00000EE7	0000016C	000F4564	00000 2AE	00000 2CA	
(1560)	0000006C	00000965	0000016C	000F457C	00000280	00000288	0000006C	00000882	0000016C	000F4593	
(1600)	00000252	00000 23A	0000006C	00000776	0000016C	000F45AA	00000 1FB	00000 24A	0000006D	00000 7A8	
(1640)	0000016C	000F45C1	00000 45D	0000044A	0000006D	00000E55	0000016C	000F45D8	0000066F	00000 63F	
(1680)	0000006D	00001 4D3	0000016B	000F45F0	00000649	00000 61C	0000006D	00001453	0000016B	000F4607	
(1720)	00000468	0000045C	0000006D	00000E78	0000016B	00000018	000F461E	00000238	00000263	0000006E	
(1760)	000007E8	0000016B	000F4635	000001E5	00000212	0000006E	00000 6D9	0000016B	000F464D	00000396	
(1800)	0000039A	0000006E	00000BE2	0000016B	000F4664	00000 5F8	000005EF	0000006E	0000138B	0000016B	
(1840)	000F467B	00000781	00000735	0000006E	000017B2	00000 16B	000F4692	00000 6CA	00000 6EB	0000006E	
(1880)	0000016B2	0000016A	000F46A9	000006D8	000006CE	0000006F	00001648	0000016A	000F46C1	00000721	
(1920)	0000072E	0000006F	00001777	0000016A	000F46D8	00000 81D	00000827	0000006F	00001A97	0000016A	
(1960)	000F46EF	0000093F	00000 8F8	0000006F	00001D32	00000 16A	000F4706	00000862	0000086D	0000006F	
(2000)	00001B5F	0000016A	000F471D	000006FC	000006C7	00000070	000015F7	0000016A	000F4735	00000 48E	
(2040)	00000454	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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(2680)	00000167	000F49A1	000001B5	000001A1	00000075	00000501	00000167	000F49B8	00000342	00000370
(2720)	00000075	00000A8D	00000167	000F49CF	00000618	000005CD	00000075	000011C5	00000167	000F49E6
(2760)	0000068C	00000670	00000075	000013AE	00000167	000F49FC	00000647	00000672	00000075	000013AC
(2800)	00000166	000F4A13	00000763	0000072C	00000076	00000157	00000166	000F4A2A	000006C1	000006DA
(2840)	00000076	00001405	00000166	000F4A41	00000751	0000076B	00000076	00001682	00000166	000F4A58
(2880)	0000086E	000007EE	00000076	00001804	00000166	00000018	000F4A6F	00000566	000005B9	00000076
(2920)	0000114E	00000166	000F4A86	000004F1	0000051A	00000077	00000F66	00000166	000F4A9D	000006E0
(2960)	000006A3	00000077	00001 3FE	00000166	000F4AB4	0000063D	00000625	00000077	00001127B	00000166
(3000)	000F4ACB	000004B2	000004E4	00000077	00000EAF	00000166	000F4AE1	000004E8	000004CE	00000077
(3040)	00000E66	00000165	000F4AF8	00000534	000005 0	00000077	00001012	00000165	000F4B0F	00000580
(3080)	00000525	00000078	00000F5B	00000165	000F4B26	00000 48D	0000050B	00000078	00000F08	00000165
(3120)	000F4B3D	0000066A	000005E4	00000078	00001185	00000165	000F4B53	0000050A	00000 52A	00000078
(3160)	00000F56	00000165	000F4B6A	0000037B	00000372	00000078	00000A35	00000165	000F4B81	0000027A
(3200)	00000283	00000079	00000 76F	00000165	000F4B98	00000 1D8	000001ED	00000079	000005B0	00000165
(3240)	000F4BAF	00000222	00000213	00000079	0000061F	00000165	000F4BC6	00000 1C8	000001AA	00000079
(3280)	000004E6	00000164	000F4BDD	000000B1	000000E9	00000079	000002AD	00000164	000F4BF4	000000FD
(3320)	000000E0	00000079	00000290	00000164	000F4C0B	00000 1C1	00000131	0000007A	0000037E	00000164
(3360)	000F4C21	00000220	00000214	0000007A	00000614	00000164	000F4C38	00000356	00000358	0000007A
(3400)	000009C1	00000164	000F4C4F	00000 48B	0000048A	00000 07A	00000D37	00000164	000F4C66	00000 57D
(3440)	0000055C	0000007A	00000F95	00000164	000F4C7D	00000 57A	00000586	0000007B	00001008	00000164
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(3520)	0000007B	00001095	00000163	000F4CC1	00000657	00000662	0000007B	00001 26E	00000163	000F4CD8
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(3600)	00000163	000F4D06	00000711	00000727	0000007C	00001489	00000163	000F4D1D	000007 0F	00000702
(3640)	0000007C	00001417	00000163	000F4D33	0000077B	00000 7A5	0000007C	000015E0	00000163	000F4D4A
(3680)	0000086D	000007EA	0000007C	00001 69C	00000163	000F4D61	00000552	00000590	0000007C	00000FDC
(3720)	00000163	000F4D78	00000 37D	000003C5	0000007D	00000ABB	00000163	000F4D8F	00000 59A	00000 5B0
(3760)	0000007D	00001 02A	00000163	000F4DA5	00000815	00000 7A6	0000007D	00001 5B5	00000162	000F4DBC
(3800)	00000639	00000621	0000007D	00001 15D	00000162	000F4DD3	00000 49F	00000 52E	0000007D	00000EA6
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(3920)	000009F7	00000A84	0000007E	00001D8A	00000162	000F4E45	00000AC8	00000A48	0000007E	00001CD3
(3960)	00000162	000F4E5C	00000984	000009C8	0000007E	00001B61	00000162	000F4E73	00000 8A4	00000844
(4000)	0000007F	00001718	00000162	000F4E8A	00000596	00000 5BB	0000007F	00000FFC	00000162	000F4EA1
(4040)	0000032A	00000357	00000 07F	00000 94D	00000161	00000018	000F4EB8	00000365	00000397	00000 07F
(4080)	000009FB	00000161	000F4ECF	00000512	000004E1	00000 7F	00000D8B	00000161	000F4EE5	00000 5AD
(4120)	000005BD	0000007F	00000FE6	00000161	000F4EFC	00000 5D3	00000575	00000080	00000F19	00000161
(4160)	000F4F13	00000 37D	000003B3	00000080	00000A36	00000161	000F4F2A	0000020B	00000204	00000080
(4200)	00000590	00000161	000F4F41	000001A4	000001F2	00000080	00000 55B	00000161	000F4F58	00000 37A
(4240)	00000 35F	00000080	00000943	00000161	000F4F6F	00000 58D	000005AA	00000081	00000F89	00000161
(4280)	000F4F85	00000 74D	000006F3	00000081	00001309	00000161	000F4F9C	00000734	00000793	00000081
(4320)	000014B5	00000161	000F4FB3	000008C5	00000 86E	00000081	000017C3	00000160	000F4FCA	00000 8C2
(4360)	000009CA	00000081	00001 8A1	00000160	000F4FE1	00000 9CA	00000987	00000081	000019EC	00000160
(4400)	000F4FF8	00000 93D	00000 92C	00000082	00001 8E8	00000160	000F500F	00000 76B	00000 75F	00000082
(4440)	000013FD	00000160	000F5026	000004CE	000004BB	00000082	00000CCD	00000160	000F503D	00000232
(4480)	00000287	00000082	00000 6D6	00000160	000F5054	00000247	00000227	00000082	000005D0	00000160
(4520)	000F5 06B	00000285	00000 2C6	00000083	00000778	00000160	000F5082	000003F1	000003DB	00000083
(4560)	00000A5F	00000160	000F5099	00000677	00000 6CD	00000083	00001241	00000160	000F50B0	00000A02
(4600)	00000946	00000083	00001 8DA	0000015F	000F50C7	00000 8AA	00000919	00000083	00001857	0000015F
(4640)	00000018	000F50DD	00000 8E3	000008A2	00000083	00001 7CF	0000015F	000F50F4	00000919	00000969

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( 4120)  E3C1D7C5  F96BE5D6  D37EE2C5  D97EF1F8  F6F96B40  4C4C4040  40404040  40404040  40404040  40404040
( 4160)  61614040  40C4C3C2  7E4DD9C5  C3C6D47E  C6C26BD3  D9C5C3D3  7EF5F8F0  6BC2D3D2  E2C9E9C5  7EF5F8F0
( 4200)  F06BC4C5  D57EF35D  40404040  40404040  40404040  4C4C4040  40404040  40404040  40404040  4C4C4040
( 4240)  6161C7D6  4BC6E3F1  F0C6F0F0  F340C4C4  40C4E2D5  7EC3D6D7  C5D94BD5  C9C3E4E2  4BC9D6E3  C14BC8C5
( 4280)  D9C3E4D3  C9E24BE3  C1D7C5D9  C5C1C44B  D7D9D6C7  D9C1D46B  40404040  40404040  40404040  4C4C4040
( 4320)  61614040  40D3C1C2  C5D37E4D  F36BC2D3  D75D6BC4  C9E2D77E  4DD6D3C4  6BD2C5C5  D75D6BE4  D5C9E37E
( 4360)  E3C1D7C5  F96BE5D6  D37EE2C5  D97EF1F8  F6F96B40  4C4C4040  40404040  40404040  40404040  4C4C4040
( 4400)  61614040  40C4C3C2  7E4DD9C5  C3C6D47E  C6C26BD3  D9C5C3D3  7EF8F06B  C2D3D2E2  C9E9C57E  F4F8F0F0
( 4440)  6BC4C5D5  7EF35D40  4C4C4040  40404040  40404040  4C4C4040  40404040  40404040  40404040  4C4C4040
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FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
3	4	5	4800	0	0	0	0	0	0

EOJ DUMP STOPPED AFTER FILE 3 # OF PERMANENT READ ERRORS 0

START TIME 3/24/80 18:32:38 STOP TIME 3/24/80 18:33:08