DATA SET CATALOG #173

65-081A-05E, G, H

OGO-2 MAGNETOMETER DATA

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

SPMS-00499

OGO-2

Compressed Magnetic Field Average Data

65-081A-05E

This data set has been restored. There were originally 4 7-track, 556 BPI tapes 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 tapes were created on a 7094 computer. The DR and DS number along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03547	DS03547	D01616	1	10/14/65 - 01/25/66
		D01617	2	01/25/66 - 03/03/66
		D01618	3	03/03/66 - 04/12/66
		D01619 *	4	11/22/66 - 12/12/66

* Read error occurred on D01619 in record 3542, File 1

NOTE: There is no data for the time span 04/13/66 - 11/21/66

SPMS-00498

OGO-2

Compressed Half Second Magnetic Field

65-081A-05G

This data set has been restored. There were originally 4 7-track, 800 BPI tapes written in BCD. There is one restored tape written in EBCDIC. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tapes were created on a 7094 computer. The DR and DS number along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03460	DS03460	D05012	1	10/14/65 - 01/25/66
		D05013	2	01/05/66 - 03/03/66
		D05014	3	03/03/66 - 12/09/66
		D05015	4	12/09/66 - 10/02/67

SPMS-00028

OGO-2

10-SE MAGNETIC FIELD AVERAGE, TAPE

65-081A-05H

This data set has been restored. There was originally one 7-track, 800 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D number and the time span is as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03461	DS03461	D05016	1	10/14/65 - 10/02/67

OGO-2 MAGNETOMETER DATA

65-081A-05E + G + H

WORD	DESCRIPTION
0	Fortran control word and file number
1	Julian day = word 1 + 2400000
2	Milliseconds into Julian day
3	Time increment of data in milliseconds
4	1/2 the number of data points in record
*	To obtain start time add Julian day to (milliseconds + time increment) /86400000
**	To obtain stop time add Julian day to (milliseconds + (number of data points x time increment) /86400000

Tapes are 7 trk, 800 BIN, 1 file, variable length records.

the words 1-4 make up a logical record and are repeated x number of times to make up a physical record.

4 1-Second Sample Tapes Timespans are:

	START	STOP	
1.	10/14/65	01/25/66	D-5012
2.	01/25/66	03/03/66	D-5013
3.	03/03/66	12/09/66	D-5014
4.	12/09/66	10/02/67	D-5015

10-Second Samples Timespans ar

	10/14/65	10/02/67	D-5016

The accuracy of the data is 1½ - 2 Gammas

these tapes are used in conjunction with DC-659 when running program OGO-2 (A5011). This program merges OGO 2 magnetometer and ephemeris data.

OGO-2 MAGNETOMETER DATA

~~65-081A~~
65-081A-05E+G+H

WORD	DESCRIPTION
0	Fortran control word and file number
1	Julian day = word 1 + 2400000
2	Milliseconds into Julian day
3	Time increment of data in milliseconds
4	1/2 the number of data points in record
*	To obtain start time add Julian day to [milliseconds + time increment]/86400000
**	To obtain stop time add Julian day to [milliseconds + (number of data points x time increment)]/86400000

Tapes are 7 TRK, 800 BIN, 1 FILE, VARIABLE Length Records.
The 4 words 1-4 make up a logical record and are repeated X number of times to make up a physical record.

4 1-Second Sample Tapes Timespans are:

	START	STOP
1.	10/14/65	01/25/66
2.	01/25/66	03/03/66
3.	03/03/66	12/09/66
4	12/09/66	10/02/67

10 Second Samples Timespans are

10/14/65	10/02/67

The accuracy of the data is 1½-2 Gammas

OGO-2 MAGNETOMETER DATA

WORD	DESCRIPTION
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3	Time increment of data in milliseconds
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**	To obtain stop time add Julian day to [milliseconds + (number of data points x time increment)]/86400000

PRINTOUT

OGO-2 MERGED MAGNETOMETER AND EPHEMERIS ~~TAPE~~ FORMAT

~~7 TRACK~~
BCD ~~Blocked Tape - 1 File~~
~~Density - 800~~ BPI
40 Characters/Logical Record
20 Logical records/Physical Record
804 Characters/Physical Record. This is 20 logical records plus 4 characters of blanks at the end of each record to fill the record out to 804 characters so that the record is compatible
~~15000 Records on Tape. The last record on the tape is filled with zeroes to signify end of tape.~~
zeroes to indicate end of data?

CHARACTER	LOGICAL RECORD DESCRIPTION	FORMAT
1	Blank	1X
2 - 3	Year	I2
4 - 5	Month	I2
6 - 7	Day	I2
8 - 9	Hour	I2
10 - 11	Minute	I2
12 - 15	Second	*
16 - 20	Latitude	**
21 - 26	Longitude	***
27 - 31	Altitude	****
32 - 36	Field (given)	I5
37 - 40	Difference between given and computed fields	I4

* Understood decimal point between characters 13 and 14 with number rounded to the nearest hundredth.

** Understood decimal point between characters 18 and 19 with number rounded to the nearest hundredth.

*** Understood decimal point between characters 24 abd 25 with number rounded to the nearest hundredth.
— Or negative sign indicates west longitude.

**** Understood decimal point between characters 30 and 31 with number rounded to the nearest tenth.

PAGE HEADER INFORMATION

- or negative sign indicates west longitude

FOBS = Field (given)
FCALC = Field (~~ca~~ computed)
DELC = Difference between given and computed fields
FOBS - FCALC = DELC

OGO-2 MAGNETOMETER DATA

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**	To obtain stop time add Julian day to [milliseconds + (number of data points x time increment)]/86400000

PROGRAM FOR DR. CAIN

OGO-2 MAGNETOMETER AND Ephemeris data are input to the program. The Output is to be sent to Dr. Leaton in England.

The FORMAT OF the output tape is:

1200 physical records per tape.
20 logical records per physical record.
800 characters per physical record.
40 characters per logical record.

DATA IN a logical record consists of eleven elements: year, month, day, hour, minute, second, latitude, longitude, altitude, field (given), difference between given and computed fields.

The FORMAT used to write a physical record is:

FORMAT (20(1X, 5I2, I4, I5, I6, 2I5, I4),

At the end of each reel a message is printed for the operator to mount the next tape on unit 7:

" END OF REEL NUMBER;
OPERATOR MOUNT NEXT TAPE "

YR, MO, DA, HR, MN, SECO, LATIT, LONGIT, ALTIT, FIELD, DIFF

TAPES USED IN PROGRAM

DESCRIPTION	TAPE #	UNIT
COPY OF DC 1617 - EPHM. ORBIT TAPE	X362	A5
OGO MAGN. DATA	X365	[B5]
IGRF (10/68) DATA CARDS	CARDS	A6
Output Tapes		A7

ROUTINES USED IN PROGRAM

DRIVER - MAIN ROUTINE

BLK - BLOCKS Data, writes records, write a zero record at end of each tape. Judy Stalker

UNO7 - ALLOWS program to write 800 character record. (see BOB JOHNSON for details).

FIOH
FCNV } ROUTINES USED TO SENSE end of file. (See BOB JOHNSON).

ALL OTHER ROUTINES WERE PROVIDED BY DR. CAIN.

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA GEN. REG. NO. 27
5010-107

UNITED STATES GOVERNMENT

Memorandum

OPTIONAL FORM COPYRIGHTED

TO : Data Center

DATE: August 15, 1967

FROM : J. Steffel

SUBJECT: OGO-2 Data Note No. 4 "Orbital Ephemeris Tape"

We are transmitting herewith a compressed orbital tape and position retrieval program using orbits supplied to us by Dr. Siry, June, 1967. We understand that these orbits are not final since they fit the SAO optical data to only about one minute of arc and were fit to range data which did not have the final time corrections. It is expected that later orbits will be available to replace the positions given and that further information will be available concerning orbital accuracy. We are thus supplying these data as being of possible value to users of OGO-2 data without assuming responsibility for the accuracy of the positions given.

Generation of Orbital Ephemeris Tape

The orbital ephemeris tape is a conversion from and a condensation of several minute vector tapes. (See AOPB Systems Manual [X542-66-291], Jones, 1966, p.112, for minute vector tape formats). The values of X, Y, and Z in celestial coordinates at one minute intervals from the minute vector tapes were converted to X, Y, and Z earth-fixed* geocentric values at two minute intervals using the following relationships:

$$\lambda = SIDT + (FJD-EDAY)*0.01720214 + FJDT* 6.3003874$$

$$XG = X \cos \lambda + Y \sin \lambda$$

$$YG = Y \cos \lambda - X \sin \lambda$$

$$ZG = Z$$

X, Y, Z - celestial coordinates (X to vernal equinox)

XG, YG, ZG - earth-fixed geocentric coordinates

SIDT - apparant sidereal time in radians

EDAY - coordinate system reference data time

*X is to Greenwich meridian
X-Y is in plane of instantaneous equator
Z is to instantaneous north pole

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FJD, FJDT - modified* Julian day and day fraction

All values of $\dot{X}$, $\dot{Y}$, and $\dot{Z}$ contained on the minute vector tapes were eliminated along with all time intervals for which no magnetic field data were available. (See Tables 1 and 2 for listing of time intervals used on present tape and Figure 1 for tape format.)

Use of Tape

Two programs (EPHM and STIR) have been written to provide the user of this ephemeris tape with a rapid and accurate means of obtaining an X, Y, Z value for any given time. (See attached program descriptions, listings, and flow charts for exact operation of EPHM and STIR.) Subroutine EPHM will locate the record whose time interval includes the desired time, and routine STIR will perform a five-point Stirling interpolation to provide values at the exact time requested. An error flag is provided to indicate an invalid time request or the absence of data at the desired time.

J. H. Steffel
Fields & Plasmas Branch

*MJD = JD - 2400000.5

GEOCENTRIC EPHEMERIS TAPE FORMAT

Word #	Header Record	
1-2	Satellite Identification	(BCD)
3-4	Data Start Time	Double precision modified Julian day and day fraction
5-6	Data Stop Time	
7	Data Interval (Δt)	(Time between data points - floating fraction of day)
8-454	Verbal ID	(BCD)

Word #	Data Record	
1-2	Data Start Time	Double precision modified Julian day and day fraction
3-4	Data Stop Time	
5-154	X Data (km)	First & last 2 points are overlap
155-304	Y Data (km)	Start and stop times apply to 3rd and 148th points
305-454	Z Data (km)	Missing data filled with nines All values are floating point

X, Y, Z is earth-fixed geocentric coordinate system with X to Greenwich meridian, X-Y in plane of instantaneous equator, Z to instantaneous north pole.

This tape was written on an IBM 7094 with Fortran binary write statements.

Figure 1. Format of Orbital Ephemeris Tape

EPHM:

EPHM is a subroutine designed to locate orbital data at specified time on a compressed ephemeris tape, and to call an interpolation routine to calculate an X, Y, and Z value (earth fixed geocentric) at the requested time:

Input parameters:

TME - double precision time (Modified* Julian day and day fraction)

Output parameters:

XG, YG, ZG - floating interpolated value of X, Y, Z respectively (geocentric)

IFLG - error code = 0 data available

= 1 no data (invalid time)

= 2 time not on tape

CALL EPHM (TME, XG, YG, ZG, IFLG)

Notes:

1. The first call to EPHM causes a print-out on normal output unit of header identification from tape.
2. EPHM requires that time requests be sequential since it has no facility for backspacing. Next request may be valid even if prior to previous if it can be located on record used for last request (records cover an interval of 146 x Δt where Δt is normally 2 minutes). IFLG = 1 if TME too early for present record.

---

*MJD = JD - 2400000.5

```
BLOCK DATA
SUBROUTINE GPHR (TIME,XO,YO,ZO,IFLG)
C ***  SUBROUTINE GPHR
C      INPUT PARAMETER
C ***    TIME - DOUBLE PRECISION JULIAN DAY AND DAY FRACTION
C ***  OUTPUT PARAMETERS
C ***    XO,YO,ZO - INTERPOLATED VALUES OF X,Y,Z AT REQUESTED TIME
C ***    IFLG - ERROR CODE RETURNED AS
C ***                          1 INVALID TIME REQUESTED
C ***                            OR DATA NOT AVAILABLE
C ***                          2 TIME REQUESTED IS NOT ON TAPE
C ***
      COMMON/STOR/XVID(1)•Y(150)•Z(150)•DELT
      EQUIVALENCE (VID•X)
      DIMENSION SATID(2)•VID(444)
      DOUBLE PRECISION TIME•STIME•STT•DTT
      DATA IX/0/
      DATA BLNK/1H /
      IF (IX.EQ.99) GO TO 1
      READ (10) SATID•STT•DTT•DELT•VID
      DELZ=DELT*86400.
C ***  WRITE OUT INFORMATION FROM HEADER RECORD
C ***  ON FIRST PASS ONLY
      WRITE (6•2) SATID•STT•DTT•DELT•DELZ
    2 FORMAT (20H SATELLITE ID•2X•2A6/15H DATA START TIME•2X•D27.16/
     1 14H DATA STOP TIME•2X•D27.16/14H TIME INTERVAL•2X•E16.9•
     2 8H DAYS = •E16.6•4H SEC)
      DO 3 I=1•37
      N1=2*I
      N2=N1-1
      IF (VID(N1).EQ.BLNK) GO TO 4
      WRITE (6•5) (VID(N)•N=N2•N1)
    5 FORMAT (1X•12A6)
    3 CONTINUE
    4 IX=99
    1 READ (10) STIME•DTIME•X•Y•Z
      IFLG=0
C ***  IF TIME REQUESTED WITHIN TIME LIMITS OF THIS TAPE
      IF (TIME.LT.STT.OR.TIME.GT.TT) GO TO 8
C ***  IS TIME REQUESTED IN THIS RECORD
      IF (TIME.GE.(STIME+DELT)) GO TO 6
C ***  IS TIME REQUESTED INVALID
C ***  ... IS TIME ... DELTA
      IF (TIME.LT.STIME) GO TO 7
      STIME=STIME
C ***  ... INTERPOLATE
      CALL ITIN (TIME•XO•YO•ZO•IFLG)
      RETURN
C ***  INVALID TIME REQUESTED
C ***  SET IFLG TO 1
    7 IFLG=1
      RETURN
C ***  TIME REQUESTED IS NOT ON THIS TAPE
    8 IFLG=2
      RETURN
      ETURN
      END
```

STIR:

Stirling five-point interpolation subroutine used to calculate a value of XG, YG, ZG from tables of X, Y, and Z previously read by EPHM.

Input parameter:

DT = (requested time) - (data start time)

Output parameters:

XG, YG, ZG - floating interpolated value of X, Y, Z

IFLG - error code = 0 data available

= 1 data missing

CALL STIR (DT, XG, YG, ZG, IFLG)

Notes:

1. For POGO orbital data spaced at 2 minute intervals it has been found that these interpolated values are accurate to better than 10 meters.

2. STIRLING'S INTERPOLATION FORMULA

$$y = y_o + \frac{u\,(\Delta y_{-1} + \Delta y_o)}{2} + \frac{u^2(\Delta^2 y_{-1})}{2} + \frac{u(u^2-1)(\Delta^3 y_{-2} + \Delta^3 y_{-1})}{2(3!)} + \frac{u^2(u^2-1)(\Delta^4 y_{-2})}{4!}$$

$$u = \frac{X - X_o}{H} \qquad H = \Delta X$$

X = Desired Time
X_o = Time at y_o
ΔX = Time between data points (equispaced points)
ΔY = Forward differences according to table as follows:

$$\begin{array}{lllll}
y_{-2} & & & & \\
 & \Delta y_{-2} & & & \\
y_{-1} & & \Delta^2 y_{-2} & & \\
 & \Delta y_{-1} & & \Delta^3 y_{-2} & \\
y_o & & \Delta^2 y_{-1} & & \Delta^4 y_{-2} \\
 & \Delta y_o & & \Delta^3 y_{-1} & \\
y_1 & & \Delta^2 y_o & & \\
 & \Delta y_1 & & & \\
y_2 & & & &
\end{array}$$

```
      WRITE STATEMENT NUMBER
      CONDITIONAL CALL (XT,XO,YO,ZO,IFLG)
C ***  STARTING FIVE POINT INTERPOLATION SUBROUTINE
      COMMON/SIDE/X(25),Y(25),Z(25),DEL
      DIMENSION DFX(5,5),DFY(5,5),DFZ(5,5)
      XT=XT/DELT
      N=N
      N1=N-1
      N2=N-2
      U2=0.5
      U3=U*U2
      U4=(U2/3.)*(U3-0.5)
      U5=U2*U4
      KEN=1
      IF (NN.EQ.N.AND.IFLG.NE.99)  GO TO 3
      NN=N
      NZERO=0
      II=0
C ***  CALCULATE FIRST TIME FINITE DIFFERENCES
      DO 1 I=1,N2
C ***  IS DATA VALID
      IF (X(I).GE.999999.)  GO TO 4
      II=II+1
      DFX(II,1)=X(I)
      DFY(II,1)=Y(I)
      DFZ(II,1)=Z(I)
    1 CONTINUE
      DO 2 L=2,5
      N2=5-L
      DO 2 N=1,N2
      DFX(N,L)=DFX(N+1,L-1)-DFX(N,L-1)
      DFY(N,L)=DFY(N+1,L-1)-DFY(N,L-1)
    2 DFZ(N,L)=DFZ(N+1,L-1)-DFZ(N,L-1)
C ***  CALCULATE X, Y, Z VALUES FOR TIME REQUESTED
    3 XG=DFX(2,1)+U2*(DFX(2,2)+DFX(3,2))+U3*DFX(2,3)
     1+U4*(DFX(1,4)+DFX(2,4))+U5*DFX(1,5)
      YG=DFY(2,1)+U2*(DFY(2,2)+DFY(3,2))+U3*DFY(2,3)
     1+U4*(DFY(1,4)+DFY(2,4))+U5*DFY(1,5)
      ZG=DFZ(2,1)+U2*(DFZ(2,2)+DFZ(3,2))+U3*DFZ(2,3)
     1+U4*(DFZ(1,4)+DFZ(2,4))+U5*DFZ(1,5)
      IFLG=0
      GO TO 5
C ***  DATA NOT VALID
C ***  SET IFLG=99
    4 NN=0
      IFLG=99
      RETURN
    5 END
```

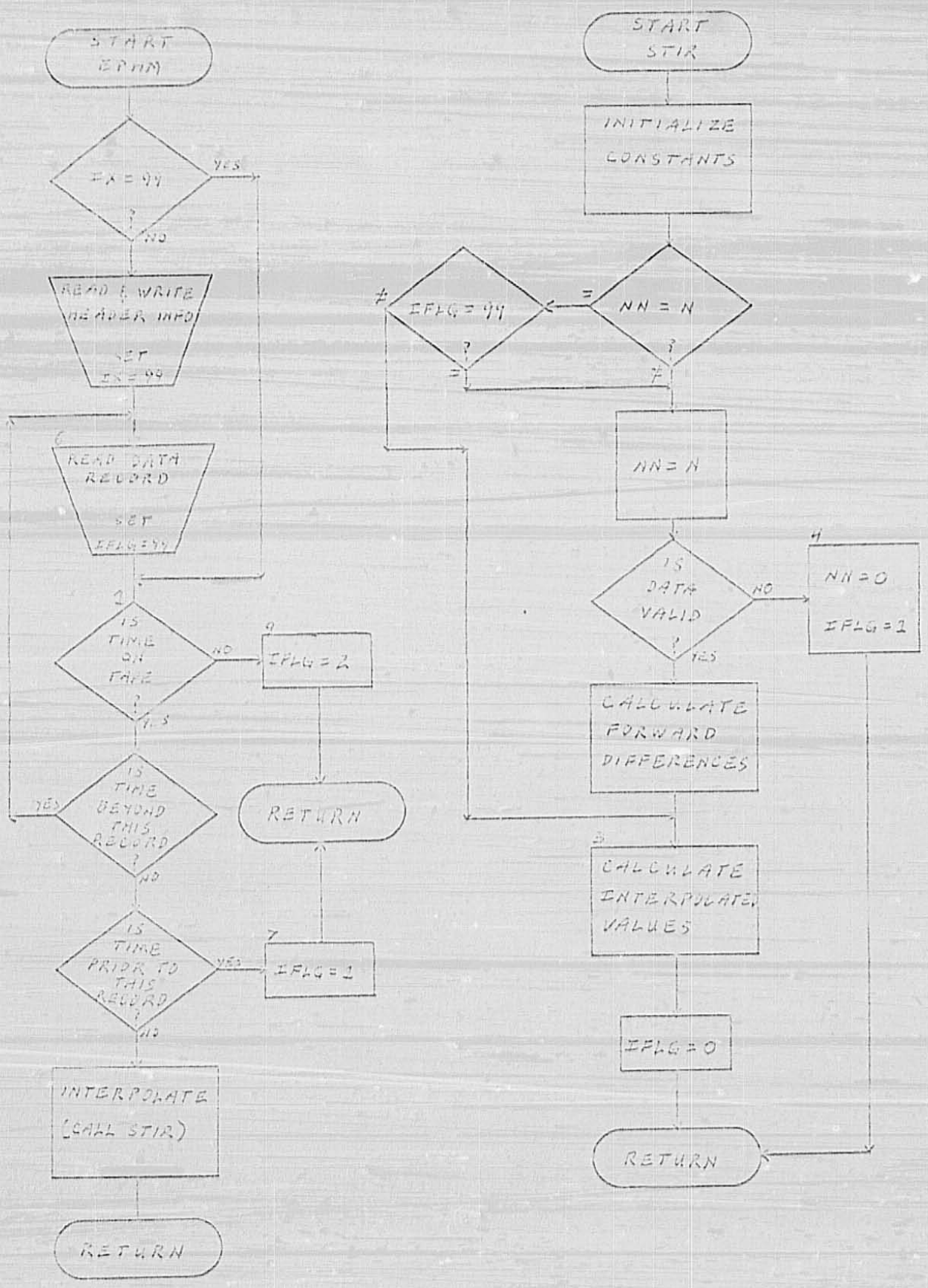

Figure 2. Flowcharts of subroutines EPHM and STIR

START YRMODYHRMN	STOP YRMODYHRMN
6510142132	6510222233
6510230544	6510242147
6510292000	6510310000
6511012251	6511020430
6511032005	6511032156
6511052051	6511172004
6511182023	6511192049
6511250029	6511260050
6511261151	6511281136
6511292249	6512010452
6512020506	6512022212
6512040911	6512041240
6512112016	6512112200
6512131723	6512140215
6512151956	6512152142
6512172230	6512180011
6512200952	6512201135
6512231550	6512231736
6512252150	6512252340
6512272234	6512280027
6512301656	6512302016
66010[illegible]0002	6601050138
66010 1602	6601072311
66010 1500	6601100000
6601112100	6601120234
6601141207	6601151541
6601170247	6604022256
6606110751	6606121359
6606240533	6606241730
6606270114	6606280514
6606291255	6607010433
6607081200	6607240000
6607250000	6608022008
6608031438	6608041143
6608061357	6608071603
6611221618	6612222148

TABLE 1. TIME INTERVALS INCLUDED ON ORBITAL EPHEMERIS TAPE (LISTED BY YEAR, MONTH, DAY, HOUR, AND MINUTE)

START	STOP
0.39047897722D 05	0.39055939588D 05
0.39056233888D 05	0.39057907640D 05
0.39062833333D 05	0.39064000000D 05
0.39065952083D 05	0.39066187500D 05
0.39067033680D 05	0.39067913889D 05
0.39069868750D 05	0.39081833611D 05
0.39082849300D 05	0.39083867360D 05
0.39089020138D 05	0.39090034720D 05
0.39090493750D 05	0.39092483330D 05
0.39093950690D 05	0.39095202770D 05
0.39096212500D 05	0.39096925000D 05
0.39098382640D 05	0.39098527770D 05
0.39105844440D 05	0.39105916660D 05
0.39107724300D 05	0.39108093750D 05
0.39109831940D 05	0.39109904170D 05
0.39111937500D 05	0.39112007640D 05
0.39114411110D 05	0.39114482640D 05
0.39117659720D 05	0.39117732640D 05
0.39119909720D 05	0.39119986110D 05
0.39121940270D 05	0.39122018750D 05
0.39124691660D 05	0.39124844440D 05
0.39130001380D 05	0.39130068050D 05
0.391[illegible]266805D 05	0.39132965970D 05
0.391[illegible]462500D 05	0.39135000000D 05
0.391[illegible]687500D 05	0.39137106940D 05
0.39139504860D 05	0.39140653470D 05
0.39142115970D 05	0.39217955550D 05
0.39287327080D 05	0.39288582640D 05
0.39300231250D 05	0.39300729170D 05
0.39303051380D 05	0.39304218050D 05
0.39305538190D 05	0.39307189580D 05
0.39314500000D 05	0.39330000000D 05
0.39331000000D 05	0.39339838880D 05
0.39340609720D 05	0.39341488190D 05
0.39343581250D 05	0.39344668750D 05
0.39451679160D 05	0.39481908330D 05

TABLE 2. TIME INTERVALS INCLUDED ON ORBITAL EPHEMERIS TAPE
(LISTED BY MODIFIED JULIAN DAY AND DAY FRACTION)

Dr. Friedrich O. Vonbun, Chief
Mission and Trajectory Analysis Division

August 7, 1967

RECEIVED

AUG 8 1967

Dr. Joseph C. Cain
Fields and Plasmas Branch

October 14-24, 1965 Orbit for OGO-2

This is to request an evaluation of the quality of the OGO-2 orbit supplied us for October 14-24, 1965. We have recently sent the Space Sciences Data Center our final magnetometer data for this interval and there appear to be a number of orbits where the field deviations appear high and we have not yet been able to ascertain any physical reason for the variations.

As discussed previously a possible suitable quality index might be a daily summary of the goodness of fit between the orbit and the tracking data.

The dates in October and times near when the magnetic field deviations seem largest (50 - 100γ) are as follows:

Day	Hour	Day	Hour
14	22	19	5, 12
15	22	22	4, 9, 21
16	4	23	11, 15, 20, 22, 24
		24	1, 3, 15, 17

Joseph C. Cain

cc: Dr. James I. Vette - Code 601

JCC:dac (612)

FILE 0001 REC 0001 CH 1510

0001	000376000001	000000114207	000447600014	000000001750	000000000372	400[illegible]400643	400734401023	401113401204	
0049	401275401363	401452401541	401632401720	402011402100	402167402256	402346402433	402524402613	402700402770	
0097	403057403145	403233403322	403407403476	403565403652	403741404026	404115404202	404267404360	404445404532	
0145	404621404704	404773405055	405145405231	405320405405	405470405555	405642405724	405811406100	406163406247	
0193	406334406417	406503406570	406653406737	407022407106	407173407256	407342407425	407511407570	407652407736	
0241	410017410103	410164410252	410333410417	410500410564	410646410727	411011411074	411156411240	411321411403	
0289	411465411547	411630411710	411772412054	412135412215	412277412361	412437412523	412603412662	412744413024	
0337	413104413164	413244413324	413406413466	413564413624	413704413764	414044414122	414202414264	414342414422	
0385	414501414561	414637414715	414775416055	415133415210	415270415346	415425415503	415561415637	415716415772	
0433	416047416123	416202416260	416336416413	416471416547	416624416702	416757417033	417110417165	417244417317	
0481	417374417450	417525417603	417656417733	420007420064	420140420213	420270420344	420417420474	420547420621	
0529	420676420751	421024421076	421151421226	421301421354	421426421500	000000421625	421700421755	422026422077	
0577	422152422223	422274422347	422422422473	422546422617	422670422743	423014423065	423136423211	423262423332	
0625	423403423454	423525423576	423647423721	423773423843	424112424163	424234424306	424355424426	424476424545	
0673	424616424666	424735425004	425054425125	425173425242	425313425363	425433425502	425551425617	425666425735	
0721	426005426054	426122426171	426237426305	426353426420	426466426545	426605426663	426720426766	427034427103	
0769	427151427216	427263427330	427376427444	427511427557	427625427672	427740430004	430052430120	430165430231	
0817	430277430343	430411430455	430522430566	430632430676	430744431010	431054431120	431166431230	431274431342	
0865	431404431450	431514431560	431626431677	431743432000	432042432106	432151432215	432257432323	432367432431	
0913	432475432537	432602432646	432710432754	433016433062	433123433167	433231433273	433337433402	433447433506	
0961	433547433611	433653433717	433760434022	434064434127	434167434231	434274434336	434400434441	434503434545	
1009	434606434680	434711434753	434815434904	435117435161	435221435262	435324435367	435427435470	435526435571	
1057	435631435674	435734435775	435835435876	436136436201	436241436302	436341436403	436444436504	436543436605	
1105	436646436705	436746437010	437046437111	437151437210	437251437307	437352437411	437453437512	437552437613	
1153	437652437712	437751440012	440051440111	440152440212	440251440312	440352440411	440450440511	440547440610	
1201	440650440707	440746441007	441046441106	441147441204	441244441303	441344441404	441443441502	441543441602	
1249	441640441701	441740442000	442037442076	442137442176	442234442275	442334442374	442433442474	442531442571	
1297	442632442671	442731442770	443027443070	443127443165	443226443265	443324443364	443423443462	443523443561	
1345	443622443661	443720443755	444015444055	444116444155	444214444255	444314444352	444413444452	444512444551	
1393	444611444651	444710444746	445007445046	445106445147	445205445246	445307445346	445406445445	445504445545	
1441	445603445644	445703445743	446004446043	446103446144	446203446243	446302446345	446404446444	446505446543	
1489	446604446645	446703446744	447005447047	447106447146	447207447246	447310447347	447407447450		

FILE 0001 REC 0002 CH 1482

0001	000366000001	000000114207	000451600453	000000001750	000000000362	447511447551	447612447652	447714447753	
0049	450016450054	450115450157	450220450262	000000450363	450424450464	450527450567	450630450672	450734450775	
0097	451035451100	451142451203	451243451305	451350451410	451453451515	451555451621	451664451726	451767452031	
0145	452073452137	452200452242	452306452346	452411452453	452517452561	452624452666	452730452772	453035453101	
0193	453143453207	453251453313	453360453424	453466453532	453576453640	453704453750	454014454056	454122454166	
0241	454232454276	454342454406	454452454516	454556454630	454674454740	455006455052	455116455163	455227455275	
0289	455341455407	455453455520	455566455632	455700456746	456013456061	456127456174	456234456310	456356456425	
0337	456471456540	456656455655	456723456771	457040457106	457155457223	457273457344	457411457457	457527457574	
0385	457644457713	457763460032	460101460151	460222460273	460342460412	460604460653	460722460774	461023461101	
0433	461046461120	461171461242	461313461364	461435461505	461560461632	461704461755	462026462101	462152462225	
0481	462276462351	462422462475	462546462622	462673462746	463021463074	463145463222	463275463347	463424463477	
0529	463553463624	463701463756	464033464107	464160464236	464313464366	464444464520	464573464652	464726465001	
0577	465097465134	465212465270	465344465423	465475465554	465633465711	465767466044	466124465200	466260466337	
0625	466415466473	466550466631	466706466766	467044467124	467202467262	467341467421	467501467561	467641467721	
0673	467777470061	470141470222	470302470362	470444470522	470604470664	470746471027	471107471171	471253471336	
0721	471416471500	471562471643	471725471707	472072472154	472236472321	472403472464	472550472633	472715473000	
0769	473064473146	473233473314	473461473455	473550473634	473717474003	474172474153	474237474322	474407474474	
0817	474566474643	474732475013	475102475165	475253475342	475425475514	475600475666	475754476041	476126476213	
0865	476302476357	476454476543	476703476717	477005477079	477162477247	477336477425	477514477602	477671477750	
0913	500047500136	500224500313	500404500471	500562500650	500737501026	501120501207	501300501370	501457501550	
0961	501637501727	502020502110	502201502272	502360502453	502541502632	502723503015	503104000000	503266503357	
1009	503435503540	503632503723	504016504156	504200504271	504363504454	504544504636	504727505021	505113505206	
1057	505277505371	505461505553	505646505740	506003506125	506217506311	506402506474	506566506660	506753507045	
1105	507137507232	507320507413	507510507603	507675507767	510001510154	510246510342	510434510527	510621510715	
1153	511007511100	511174511270	511362511452	511550511641	511735512027	512121512216	512310512402	512474512566	
1201	512661512753	513047513143	513235513327	513422513516	513610513702	513775514067	514156514255	514347514443	
1249	514536514630	514724515016	515112515203	515277515371	515465515557	515652515744	516036516130	516224516317	
1297	516411516505	516597516671	516766517056	517150517243	517337517425	517520517610	517701517771	520066520156	
1345	520250520341	520435520527	520621520712	521004521076	521171521261	521353521446	521526521631	521721522013	
1393	522104522176	522295522357	522452522541	522633522722	523010523104	523175523266	523356523447	523537523626	
1441	523717523807	524100524170	524287524350	524433524525	524616524706	524776000000	000000525242		

FILE 0001 REC 0003 CH 1530

0001	000376100001	000000114207	000454763760	000000001750	000000000372	540575540527	540460000000	540341000000
0049	540220640147	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0097	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0145	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0193	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0241	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0289	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0337	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0385	000000523163	523046522730	522651522475	522357522241	522120522001	521662521542	521421521302	521126521040
0433	520717520576	520452520330	520206520065	517741517715	517473517347	517223517075	516751516624	516500516352
0481	516224516077	515751515622	515472515343	515215515094	514734514603	514454514323	514173514041	513707513556
0529	513423513272	513137513006	512652512517	512362512230	512075512140	511604511447	511311511154	511016510661
0577	510521510365	510227510072	507730507572	507432507274	507134506774	506634506472	506332506171	506031505667
0625	505825505363	000000505056	504715504353	504415504244	504102503735	503572503426	503263503116	502753502605
0673	502440502273	500212650171	501014501445	501300501131	500754500615	500446500277	500130477762	477611477442
0721	477273477123	476752476603	476431476292	476112475741	475557475416	475246475074	474721474551	474377474224
0769	474052473700	473525473353	473201473026	472653472500	472326472152	471776471624	471450471274	471120470746
0817	470570470418	470240470064	467710467534	467460467202	467026466652	466475466317	466143465765	465610465434
0865	465256465100	464723464545	464371464213	464034463660	463500463323	463147462767	462612462434	462256462077
0913	461721461542	461364461205	461027460651	460472460313	460133457755	457576457417	457241457061	456702456523
0961	456346456165	456004455627	455647455270	455114454731	454753454371	454213454033	453654453475	453315453140
1009	452756452577	452420452240	452063451703	451524451344	451165451007	450627450450	450273000000	447736447554
1057	447400447221	447043446664	446505446327	446151445773	445614445440	445262445105	444725444551	444374444214
1105	444036443663	443507443331	443153443777	442621442445	442270442116	441740441564	441410441236	441062440706
1153	440832440357	440205440031	437657437505	437332437160	437000436634	436463436307	435935435764	435612435436
1201	435267435117	434746434575	434423434256	434107433737	433570433421	433254433105	432736432571	432422432255
1249	432110431743	431576431431	431264431116	430753430611	430444430301	430135427775	427630427466	427323427163
1297	427021426660	426502425356	426214424054	425714425654	425414425254	425116424760	424622424463	424327424172
1345	424034423677	423541423405	423252423115	422762422827	422475422342	422207422056	421725421575	421442421313
1393	421162421033	420703420554	420424420277	420151420025	417675417551	417424417300	417154417032	416704416563
1441	416437416315	416174416054	415732415513	415471415352	415233415112	414775414604	414541414424	414307414174
1489	414064413743	413630413514	413402413267	413155413044	412732412624	412514412404	412274412165	

FILE 0001 REC 0004 CH 1530

0001	000376000001	000000114207	000456703416	000000001750	000000000372	412057411751	411643411536	411431411325
0049	411220411116	410134167210	410507410504	410406410303	410204410104	410005407707	407610407514	407416407322
0097	407226407142	407036406744	406652406557	406467406376	406306406217	406130406040	405754405665	405576405513
0145	405430405344	405262405177	405115405034	404752404570	404612404532	404454404375	404317404241	404164404110
0193	404035403762	403705403634	403561403510	403437403366	403320403247	403203403134	403064403022	402754402710
0241	402546402602	402540402477	402435402374	402336402275	402234402177	402140402103	402046402007	401754401720
0289	401563401632	401600401550	401514401464	401434401406	401360401330	401302401257	401234401206	401161401140
0337	401115401074	401053401033	401014400973	400755400737	400720400706	400670400654	400640400626	400613400601
0385	400567400550	400551400537	400532400523	400514400511	400503400500	400475400471	400467400466	400464400462
0433	400464400460	400464400466	400467400471	400475400502	400505400512	400517400525	400533400542	400551400563
0481	400574400606	400617400631	400643400651	400673400711	400725400743	400762401000	401017401041	401060401101
0529	401122401147	401170401213	401236401264	401311401335	401363401412	401442401472	401522401550	401602401635
0577	401667401720	401756402011	402044402102	402137402174	402233402272	402332402371	402432402472	402534402575
0625	402641402703	402747403013	403057403123	403171403237	403306403355	403425403474	403544403615	403670403741
0673	404012404065	404141404214	404273404345	404422404502	404560404636	404715404773	405053405135	405216405300
0721	405360405444	405525405611	405676405761	406046406132	406217406306	406375406463	406552406643	406733407024
0769	407115407207	407277407372	407466407560	407654407750	410044410142	410237410335	410434410534	410632411071
0817	411030411132	411233411335	411437411341	411634411745	412052412155	412260412366	412473412577	412705413014
0865	413126413230	413340413660	413562413672	414002414114	414225414337	414451414564	414677415013	415126415242
0913	415357415472	415811415725	416043416160	416277416416	416537416656	416776417115	417234417356	417477417617
0961	417741420064	420206420330	420453420575	420721421043	421171421315	421441421565	421712422040	422166422312
1009	422441422671	422715423044	423173423323	423432423602	423733424062	424211424344	424474424627	424760425111
1057	425342425375	425530425603	426015426160	426303426436	426573426727	427026427217	427355427511	427546430002
1105	430137430275	430434430572	430726431066	431223431363	431521431661	432017432157	432317432457	432617432757
1153	433117433261	433417433561	433723434044	434224434370	434531434674	435035435177	435340435504	435646436007
1201	436152436314	436460436625	436770437114	437277437442	437606437753	440116440263	440421440574	440731441106
1249	441252441415	441562441727	442074442241	442407442555	442721443070	443225443402	443551443716	444056444234
1297	444391444550	444715445064	445229445377	445544445715	445906446233	446440446547	446716447064	447233447402
1345	447553447722	450070450236	450404450555	450724451073	451241451410	451557451726	452077452245	452414452555
1393	452732453101	453251453420	453571453737	454110454257	454426454575	454748455114	455264455433	455604455753
1441	456122456270	456641456610	456957457127	457300457447	457615457764	460123460304	460454460623	460772461141
1489	461461461660	461977462318	462294462637	462628462831	463000463147	463316463466	463635464002	

FILE 0001 REC 0005 CH 1530

0001	000376000001	000000114207	000460624054	000000001750	000000000372	464151464320	464467464636	465004465151	
0049	465317465467	465634466003	466150466317	466464466633	467000467145	467314467460	467626467772	470141470306	
0097	470463470620	470765471131	471277471443	471590471753	472120472264	472427472574	472742473105	473247473414	
0145	473557473723	474066474230	474373474537	474702475044	475207475351	475514475656	476020476163	476325476466	
0193	476626476770	477132477273	477435477577	477737500077	500237500377	500537500677	501040501177	501337501477	
0241	501637501777	502145502273	502443502571	502739503066	503226503364	503521503657	504015504152	504310504445	
0289	504603504737	505072505231	505363505520	505656505015	506146506302	506437506572	506724507057	507212507345	
0337	507500507631	507764510115	510250510401	510532510663	511013511144	511275511424	511555511706	512036512165	
0385	512316512444	512574512723	513052513202	513326513455	513603513731	514056514206	514332514457	514603514731	
0433	515055515201	515327515453	515577515723	516047516171	516315516435	516565516704	517026517150	517271517413	
0481	000000517656	520000520117	520241520362	520502520621	520742521061	521201521320	521437521556	521675522013	
0529	522131522246	522365522502	522617522734	523051523166	523302523420	523534523647	523763524076	524212524325	
0577	524440524552	524664524777	525107525221	525337000000	525554000000	525774526106	526216526330	526440526546	
0625	526656526762	527072527202	527311527415	527523527632	527740530045	530151530266	530364530467	530573530700	
0673	531003531106	531121531315	531420531521	531627531727	532030532133	532232532333	532436532535	532637532740	
0721	533037533137	533234533335	533435533531	533627533726	534024534120	534215534313	534411534506	534602534676	
0769	534774535070	535162535255	535351535445	535537535633	535725536017	536112536202	536273536365	536456536550	
0817	536637536727	537020537107	537177537266	537356537446	537534537623	537710537777	540063540152	540237540324	
0865	540411540473	540560540643	540730541012	541075541161	541244541326	541410541473	541553541635	541717541777	
0913	542006542142	542222542300	542362542440	542520542576	542656542735	543015543071	543150543226	543302543361	
0961	543438543612	543560543641	543716543772	544045544122	544176544251	544322544375	544446544521	544572544645	
1009	544716544767	545041545112	545161545231	545302545351	545421545470	545557545607	545685545752	545772546037	
1057	546103546153	546217546264	546360546374	546442546504	546552546614	546675546723	546765547031	547072547134	
1105	547176547237	547501547343	547404547443	547605547545	547604547643	547705547743	550001550040	550077550136	
1153	550173550232	550267550324	550363550417	550454550507	550543550574	550631550665	550720550752	551005551041	
1201	551072551125	551154551205	551240551270	551321551351	551403551433	551461551511	551541551570	551620551646	
1249	551674551722	551751551777	552024552052	552075552123	552150552172	552217552243	552270552313	552336552361	
1297	552403552426	552451552474	552517552540	552561552602	552622552643	552662552703	552725552744	552762553001	
1345	553021553040	553056553073	553113553127	553146553162	553202553214	553230553246	553262553277	553312553326	
1393	553340553354	553366553401	553413553425	553436553452	553462553473	553503553516	553526553541	553547553560	
1441	553567553577	553605553615	553624553633	553640553645	553654553661	553670553673	553700553706	553711553714	
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0001	000376000001	000000114207	000462544512	000000001750	000000000372	553762553762	553762553762	553762553762	
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0097	553715553706	553702553677	553670553665	553656553651	553642553636	553627553621	553612553603	553574553563	
0145	553555553546	553535553526	553515553503	553475553462	553452553441	553427553413	553402553370	553354553342	
0193	553327553313	553301553265	553251553237	553221553207	553171553153	553137000000	553104553070	553052553033	
0241	553015552777	552760552741	552723552703	552664552645	552625552605	552566552545	552526552506	552465552444	
0289	552423552400	552355552334	552311552270	552245552222	552200552155	552130552104	552061552034	552011551765	
0337	551740551714	551665551641	551614551565	551541551513	551465551435	551410551360	551332551304	551254551225	
0385	551175551144	551115551064	551035551004	550954550722	550872550640	550806550555	550523550471	550436550403	
0433	550351550317	550264550230	550175550141	550106550051	550015547762	547725547670	547633547577	547540547505	
0481	547446547411	547354547315	547265547217	547162547122	547063547022	546763546724	546664546625	546554546524	
0529	546465546423	546364546322	546261546220	546156546116	546052546011	545747545704	545642545602	545537545473	
0577	545427545365	545321545257	545215545147	545103545037	544767544720	544654544610	544544544475	544431544363	
0625	544315544246	544200544132	544065544015	543746543676	543631543561	543512543444	543373543325	543254543203	
0673	543134543062	543011542942	542871542821	542754542675	542424542353	542302542227	542156542103	542032541757	
0721	541704541631	541555541504	541427541356	541301541227	541154541077	541023540750	540873540617	540542540466	
0769	540407540334	540256540202	540123540045	537767537712	537634537556	537476537417	537341537261	537205537125	
0817	537046536766	536706536626	536546536466	536406536326	536246536166	536106536025	535743535563	535601535520	
0865	535440535356	535275535212	535127535045	534766534700	534616534533	534451534366	534302534221	534134534052	
0913	533767533703	533616533533	533447533362	533277533211	533126533041	532754532667	532603532516	532431532344	
0961	532256532170	532105532014	531727531642	531556531464	531375531306	531221531150	531043530753	530666530575	
1009	530506530417	530331530240	530151530051	527775527701	527611527520	527431527341	527246527156	527065526775	
1057	526702526612	526521526427	526336526244	526154526061	525771525677	525604525512	525420525325	525233525137	
1105	525045524753	524865524664	524472524375	524302524210	524114524022	523726523632	523536523443	523347523252	
1153	523156523062	522766522672	522576522500	522404522310	522212522116	522017521723	521825521531	521435521336	
1201	521244521154	521046520747	520853520554	520456520360	520262520165	520065517765	517670517574	517475517375	
1249	517300517200	517101517001	516704516604	516506516405	516306516207	516107516010	515707515607	515512515410	
1297	515311515210	515110515007	514710514610	514500514406	514307514204	514103514003	513702513601	513500513377	
1345	513276513176	513073512772	512671512566	512465512362	512263512160	512057511756	511653511552	511447511346	
1393	511243511142	511037510734	510833510530	510425000000	510220510115	510012507707	507604507502	507377507274	
1441	507171507067	506762506657	506552506451	506346506240	506137506028	505726505621	505516505412	505307505202	
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0001	000376000001	000000114207	000466455150	000000001750	000000000372	503176503071	502763502657	502552502445	
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0097	500207500077	477771477652	477554477447	477337477231	477123477015	476706476576	476470476360	476254476144	
0145	476038475925	475615475507	475377475291	475161475052	474742474634	474523474416	474304474174	474064473756	
0193	473846473538	473426473315	473206473076	472786000000	472546472434	472326472216	472106471774	471666471553	
0241	471446471333	471223471111	470777470667	470557470446	470334470224	470112470002	467671467557	467445467335	
0289	467224467112	467000466665	466558466443	466331466220	466110465774	465663465547	465437465325	465214465100	
0337	464768464655	464543464430	464316464204	464071463757	463644463530	463420463305	463172463056	462734462631	
0385	462516462402	462271462155	462042461726	461515461500	461366461251	461137461002	460710460573	460461460346	
0433	460233460115	460002457667	457553457440	457321457207	457072456757	456643456526	456411456276	456160456045	
0481	455730455614	455477455362	455245455130	455015454677	454552454445	454332454213	454077453762	453545453530	
0529	453413453274	453161453044	452726452610	452472452355	452236452123	452004451667	451552451433	451316451177	
0577	451062450743	450526450507	450372450253	450114450017	447677447562	447344447324	447207447070	446751446632	
0625	446513446376	446256446141	446020445703	445562445445	445325445206	445067444750	444631444511	444372444253	
0673	444134444015	443675443554	443340443313	443176443055	442735442616	442475442357	442236442116	441775441654	
0721	441534441415	441274441154	441033440713	440572440452	440331440211	440070437746	437627437505	437364437243	
0769	437121437001	436656436536	436415436273	436152436030	435710435557	435449435324	435202435060	434737434615	
0817	434476434350	434226434104	433763433841	433517433374	433252433130	433006432663	432541432417	432275432151	
0865	432030431704	431562431437	431313431171	431045430723	430601430455	430332430206	430062427740	427616427472	
0913	427346427224	427100426754	426630426505	426361426235	426112425765	425641425516	425372425246	425123424777	
0961	424655424405	424400424256	424130424004	423656423532	423409423262	423139423007	422663422535	422411422264	
1009	422140422012	421666421540	421412421265	421141421013	420665420540	420412420264	420140420011	417663417535	
1057	417410417262	417134417005	416661416532	416404416254	416127416001	415652415524	415375415247	415121414772	
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1153	412064411735	411505411456	411327411177	411050410720	410571410440	410312410161	410032407700	407551407422	
1201	407271407141	407012406662	406533406402	406251405121	405770405541	405510405356	405227405076	404745404615	
1249	404464404333	404202404051	403721403570	403437403306	403155403024	402673402543	402412402257	402130401775	
1297	401646401514	401363401232	401101400746	400615400462	400333400200	400047377716	377565377432	377301377146	
1345	377015376664	376531376400	376246376114	375761375830	375475375344	375213375060	374727374574	374441374306	
1393	374155374022	373671373536	373403373252	373117372765	372833372477	372344372213	372060371725	371572371441	
1441	371306371154	371021370664	370533370400	370247370112	367761367627	367472367341	367206367051	366717366562	
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FILE 0001 REC 0009 CH 1530

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0097	360102357747	357612357457	357324357170	357035356700	356546356413	356258356123	355767355634	355477355343	
0145	355212355055	354722354570	354431354276	354144354011	353654353520	353363353232	353075352743	352606352453	
0193	352317352124	352031351673	351542351405	351250351116	350761350626	350472350337	350202350047	347715347562	
0241	347423347271	347136347003	346650346514	346361346224	346071345736	345602345447	345314345160	345023344670	
0289	344535344403	344246344113	343757343624	343471343334	343202343047	342712342557	342423342272	342137342002	
0337	341646341513	341360341225	341072340736	340603340450	340315340161	340030337673	337540337405	337252337120	
0385	336765336632	336477336343	336211336057	335722335571	335436335303	335147335014	334663334526	334375334242	
0433	334107333754	333623333471	333336333203	333050332715	332564332431	332276332144	332012331660	331525331374	
0481	331241331110	330755330622	330471330336	330205330054	327717327566	327435327302	327153327020	326665326334	
0529	326403326252	326117325766	325834325502	325351325217	325073324735	324604324451	324322324171	324040323706	
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0625	320740320607	320460320330	320177320050	317717317567	317440317307	317157317026	316677316547	316420316267	
0673	316141316012	315661315531	315402315251	315121314774	314844314515	314365314236	314110313761	313631313502	
0721	313354313225	313075312750	312820312473	312343312214	312064311737	311611311463	311336311206	311057310733	
0769	310600310456	310330310202	310055307725	307601307452	307324307200	307052305725	306577306453	306325306200	
0817	306062305724	305577305453	305327305201	305055304725	304601304455	304330304206	304060303734	303610303464	
0865	303340303214	303066302744	302816302472	302350302222	302100301754	301630301504	301362301236	301112300770	
0913	300644300620	300375300253	300127300005	277661277540	277414277272	000000277025	276701276561	276437276314	
0961	276172276080	275726275603	275463275340	275220275076	274753274631	274510274370	274246274125	274003273662	
1009	273542273421	273277273156	273036272714	272575272454	272334272213	272072271752	271633271512	271372271251	
1057	271132271014	270673270554	270434270315	270174270055	269737269716	269501269360	269243269124	267006266667	
1105	266556266441	266314266175	266055265737	265622265503	265365265247	265131265013	264675264560	264442264324	
1153	264206264071	263754263637	263522263405	263273263152	253037262732	262605262470	252356262241	262124262007	
1201	261671261556	261443261326	251212261100	250763260660	260534260421	260306260172	260057257743	257632257516	
1249	257403257287	257156257042	256731256615	256503256370	256256256145	256033255720	255606255474	255362255251	
1297	255137255025	254715254604	254473254360	254247254137	254025253715	253803253473	253363253252	253142253032	
1345	252722252612	252502252372	252262252150	252042251733	251822251512	251402251275	251165251055	250747250641	
1393	250532250422	250314250204	250076247770	247661247553	247445247336	247230247134	247015246707	246601246474	
1441	246386246261	246155246047	245740245534	245527245423	245316245211	245103245000	244674244557	244463244360	
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FILE 0001 REC 0009 CH 1530

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0097	237521237320	237317237117	237116237017	236715235616	236515235414	236316236215	236116236016	235715235616
0145	235522235417	235317235222	235122235023	234725234524	234526234427	234331234232	234134234035	233737233441
0193	233542233344	233346233251	233153233055	232756232664	232556232470	232472232276	232201232105	232007231713
0241	231617231531	231427231331	231235231141	231045230751	230855230561	230465230373	230277230105	230107230015
0289	227721227627	227534227443	227350227254	227162227067	226975226703	226612226520	226426226333	226241226147
0337	226056225764	225873225681	225511225416	225326225235	225145225054	224762224671	224601224512	224423224332
0385	224240224151	224062223770	223701223611	223522223431	223344223254	223165223076	223007222720	222631222543
0433	222455222367	222301222213	222122222035	221750221661	221574221505	221420221333	221246221160	221072221004
0481	220721220632	220545220462	220375220307	220224220137	220052217766	217703217616	217532217447	217363217276
0529	217213217130	217044216761	216875216614	216530215446	216363216300	216215216132	216051215767	215704215622
0577	215540215457	215373215311	215230215146	215056215000	214723214643	214556214477	214417214335	214255214174
0625	214114214034	213754213673	213614213532	213454213372	213314213234	213154213074	213014212736	212657212601
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0721	211160211082	210825210751	210672210616	210541210465	210410210334	210257210202	210130210053	207776207724
0769	207647207574	207520207445	207372207315	207241207170	000000207040	206765206714	206641206570	206515206443
0817	206371206317	206244206173	206121206047	205775205724	205653205602	205531205460	205407205336	205264205215
0865	205144205074	205025204752	204703204633	204564204513	204443204376	204324204255	204204204133	204065204017
0913	203746203701	203631203562	203514203445	203401203333	203263203216	203150203102	203035202771	202723202655
0961	202607202543	202500202432	202366202322	202254202210	202144202076	202034201766	201722201656	201612201546
1009	201504201440	201374201330	201266201224	201156201115	201053201011	200745200703	200640200600	200534200473
1057	200431200370	200326200264	200221200161	200120200060	200015177755	177714177654	177613177553	177512177453
1105	177413177352	177313177253	177212177155	177113177054	177017176756	176721176660	176623176564	176526176467
1153	176430176373	176334176277	176240176203	176144176110	176053176014	175757175722	175667175632	175573175537
1201	175500175447	175412175355	175323175266	175232175177	175143175110	175055175021	174766174732	174701174645
1249	174612174560	174526174473	174441174406	174354174322	174271174237	174207174155	174124174074	174042174010
1297	173760173730	173675173645	173610173565	173533173505	173455173425	173376173346	173320173270	173242173214
1345	173166173135	173105173057	173031173002	172754172730	172701172653	172627172600	172554172525	172477172453
1393	172424172401	172355172330	172304172257	172233172210	172163172137	172114172057	172044172021	171777171754
1441	171727171706	171663171640	171615171573	171551171527	171505171463	171441171420	171377171356	171333171314
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FILE 0001 REC 0010 CH 1530

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0097	170473000000	170457000000	170441000000	170423000000	170406000000	170370000000	170352000000	170336000000
0145	170322000000	170306000000	170270000000	170256000000	170240000000	170224000000	170210000000	170174000000
0193	170160000000	170146000000	170132000000	170116000000	170106000000	170072000000	170057000000	170043000000
0241	170031000000	170017000000	170004000000	167774000000	167760000000	167746000000	167733000000	167723000000
0285	167710000000	167700000000	167667000000	167655000000	167644000000	167634000000	167623000000	167611000000
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0385	167505000000	167474000000	167465000000	167456000000	167447000000	167441000000	167432000000	167423000000
0433	000000000000	167407000000	167402167377	167375167370	167366167363	167361167355	167353167350	167346167343
0481	167341167336	167334167331	167327167325	167322167320	167315167313	167311167310	167304167303	167301167275
0529	167275167272	167270167266	167264167263	167261167256	167255167254	167252167254	167247167244	167243167240
0577	167240167236	167236167233	167233167231	167227167230	167225167226	167222167222	167220167221	167217167217
0625	167217167215	167215167214	167213167212	167211167210	167211167210	167206167210	167206167206	167206167205
0673	167204167206	167204167205	167204167205	167204167205	167204167205	000000167205	167204167205	167204167205
0721	167204167205	167206167206	167206167206	167210167210	167210167212	167211167212	167213167214	167215167215
0769	167217167217	167220167221	167222167224	167224167225	167225000000	000000167233	167234167236	167236167242
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0865	167275167277	167302167304	167307167310	167313000000	167316167320	167323167325	167330167331	167335167336
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0097	460757460275	457601457063	456332455552	454773454171	453352452515	451642450746	450033447102	446131445136		
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0337	325224325062	324715324576	324470000000	324300324211	324130324041	323754323660	323560323454	323317323213		
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0625	352130353457	355037356421	360007361376	362771364365	365756367346	370735372322	373705375262	376635400201		
0673	401344403076	404425405745	407247410546	412037413317	414562416015	417235420441	421634423010	424147425275		
0721	426402427471	430541431573	432606433600	434554435507	436422437312	440162441013	441620442406	443147443667		
0769	444356445040	445473446101	446461447022	447336447627	450077450320	450517450673	451023451125	451207451244		
0817	451260451280	451216451136	451033450707	450540450350	450136447700	447423447123	446602446241	445655445253		
0865	444527444154	443477442775	442253441512	440732440132	437320436464	435515434731	434027433112	432157431212		
0913	430227427234	428226425206	424147423104	422027420741	417642416533	415413414264	413125411757	410601407416		
0961	405225405224	403016402404	401104377736	376905375247	374006372541	371256370011	366533365245	363757362467		
1009	361176357701	356400355100	353575352272	350764347455	346145344636	343325342014	340501337167	335654334343		
1057	332303331515	330204326673	325362324053	322546321236	317732316426	315124313624	312325311030	307537306245		
1105	304757303476	302213300735	277462276211	274742273501	272243271006	267557266333	265114263703	262475261273		
1153	260102256711	255531254355	253203252045	250717247574	246450245355	244255243173	242115241051	240015236770		
1201	235755234755	233765233007	232042231111	230172227266	226374225517	224655224027	223216222420	221640221075		
1249	220345217637	217142216464	216027215007	215004214421	214053213526	213220212730	212455212224	212015211621		
1297	211451211314	211203211110	211034211000	210754210770	211013211055	211137211241	211362211522	211701212077		
1345	212331212545	213017213312	213617213142	214504215064	215462216073	216524217172	217651220346	221061221611		
1393	222154223135	223726224533	225354226211	227062227745	230641231551	232472233430	234375235360	236351237355		
1441	240372241420	242461243533	244515245712	247020250136	251264252412	253571254747	256137257337	260550261771		
1489	263220264460	265730267207	270477271776	273305274622	276147277503	301042302410	303772305360			

FILE 0001 REC 0008 CH 1530

0001	000476000001	000000114210	000075025065	000000023420	000000000372	306754310356	311766313404	315030316462		
0049	320122321566	323235324714	326402330071	331563333257	334760336465	340200341715	343430345152	346672350416		
0097	352142353670	355415357141	360572362416	364142365665	367403371121	372635374346	376051377554	401247402740		
0145	404234406100	407551411207	412541414264	415677417301	420570422251	423617425155	426475430005	431304432653		
0193	434070435261	436475000000	000000000000	000000000000	000000000000	000000000000	000000452667	453627454553		
0241	000000000000	000000000000	455630461412	462156462700	463400464065	464534465160	465564466151	466517467047		
0289	467360467651	470122470356	470573470775	471150471325	471450471575	471700471765	472040472100	472123472136		
0337	472136472123	472077472040	471770471707	471514471510	471375471251	471116470754	470600470421	470227470026		
0385	467630467415	467171466741	466505466240	465767465506	465217464724	464417464104	463555463237	462720462336		
0433	461753461400	461004460404	457774457354	456721455256	455602455112	454411453675	453144452401	451623451031		
0481	450221447376	446537445655	444772444064	443140442175	441212440212	437174436134	435057433763	432647431512		
0529	430337427143	425730424475	423221421730	420415417061	415513414124	412517411074	407433405761	404272402571		
0577	401057377332	375572374023	372244370460	365555365073	363274361474	357675356076	354303352513	350731347156		
0625	345417343616	342147340445	336764335324	333703332305	330732327401	326101324632	323413322217	321061317753		
0673	316575315653	314661313723	313017312144	311325310534	307774307263	306600306142	305532305142	304576304251		
0721	303746303460	303210302752	302527302316	302114301715	301531301337	301157301003	300627300453	300277300122		
0769	277944277562	277400277212	277023276632	275436275236	276033275626	275415275202	274765274544	274322274075		
0817	273650273414	273163272731	272502272255	272032271612	271377271166	270762270565	270375270217	270045267706		
0865	267557267440	267341267253	267206267154	267140267144	267170267232	267317267426	267561267736	270145270361		
0913	270624271100	271455272030	272436272735	273545274256	275014275601	276415277261	300153301074	302044303041		
0961	304070305136	306224307361	310532311724	313143314404	315664317166	320511322056	323436325036	326453330103		
1009	331547333225	334714336413	340125341645	343371345124	346662350423	352167353734	355504357255	361023362574		
1057	364341366124	367542371376	373126374653	376372400102	401601403273	404755405426	410063411511	413123414523		
1105	416103417452	421002422315	423512425071	426331427551	430781432131	433267434405	435503436556	437607440615		
1153	441577442537	443453444345	445212446047	446635447407	450136450636	451314451745	452350452726	453260453565		
1201	454047454303	454511454675	455033455147	455236455302	455310455310	455260455206	455106454764	454622454434		
1249	454254453774	453521453224	452705452355	451777451403	450765450333	447660447170	446461445736	445171444412		
1297	443620443004	442157441317	440441437552	436647435730	434777434037	433053432077	431102430074	427055426027		
1345	424076423722	422645421552	420669417364	416254415136	414014412662	411522410354	407201406023	404640403451		
1393	402253401052	377646376634	375221373777	372555371324	370073366634	365376364133	362665361415	360143356666		

1441	354905354124	352641351351	350063346571	345300344003	342506341207	337707336406	335106333604	332300330775		
1489	327470326164	324656323351	322047320545	317241315737	314436313134	311637310340	307043305552			

FILE 0001 REC 0009 CH 0552

0001	000133000001	000000114210	000120072542	000000023420	000000000127	304262302774	301505300226	276747275473		
0049	274264272755	271516270261	267030266504	264356263152	261746260546	257256256173	255013253647	252512251362		
0097	250244247134	246034244745	243670242623	241571240551	237542236546	235554234617	233664232745	232042231155		
0145	230304227447	226630226025	225240224474	223745223232	222541222065	221430221013	220417220043	217504217170		
0193	216673216410	216160215744	215547215375	215245215137	215046214777	214752214743	214757215013	215071215167		
0241	215307215451	215532216033	216253216516	216776217390	217621220161	220543221194	221555222225	222702223377		
0289	224114224646	225416226205	227014227641	230501231357	232255233165	234114235056	236037237031	240043241067		
0337	242131243205	244274245401	246520247652	251016252174	253370254573	256012257243	260504261760	263250264547		
0385	266061267403	270737272301	273655273241	276637300240	301654303277	304732306374	310044311523	313210314703		
0433	316404320112	321630323351	325100326635	330374332140	333712335466	337243341022	342603344372	346160347751		
0481	351543353433	355126356717	360511362277	364065365653	367434371215	372771374540	376301400043	401574000000		
0529	000000000000	000000411743	413425415076	416536000000						

FILE 0001 REC 0010 CH 0174

0001	000034000001	000000114210	000127016557	000000023420	000000000030	434130435406	436646000000	000000000000		
0049	000000044751	446073447164	000000451274	452307453302	000000455213	456124457020	457675460527	461342462135		
0097	462712463446	464153464660	465337465777	000000000000	467413000000	000000470633	471135471423	471700472134		
0145	472361472574	472772473161	473335473475	473633473755	474071000000					

FILE 0001 REC 0011 CH 1530

0001	000376000001	000000114210	000139755570	000000023420	000000000372	000000474546	474600474622	474634474641		
0049	474654474625	000000474560	474630000000	474421000000	000000474176	474077473770	473654000000	473374473230		
0097	473034472670	472473472264	472040471606	471340471055	000000470245	467716467355	467000466406	466000466352		
0145	464710464227	463530463111	462255000000	000000455345	454444454520	000000452572	000000450527			
0193	000000000000	000000444070	000000441473	000000000000	000000434150	432605000000	427611426143	000000423023		
0241	421311417560	416012414225	412421410601	000000405071	403205401311	377404376460	373525371563	367613365634		
0289	363851361662	357670000000	353705351713	347727000000	343754342014	340052336120	334176332271	330377000000		
0337	324653000000	321221317433	315665314135	312430310745	000000000000	000000000000	301406000000	276635275406		
0385	274205000000	000000270570	267500000000	255442264440	253473000000	261646260770	260135000000	255526255753		
0433	000000254504	254007253331	000000000000	251650251263	250715250363	000000247542	247255247003	246545246323		
0481	246114245717	245541000000	245245245124	000000244723	244644244574	244537244516	000000000000	244525244555		
0529	244617000000	244756245037	245172245320	245461245633	000000246233	246453246712	000000247460	247771250317		
0577	250655000000	251652252334	252751000000	000000254710	255465256267	257115257765	260657000000	262540000000		
0625	000000265877	266662267767	271120272270	273457274713	000000277447	300760000000	303657305245	000000310276		
0673	311737313415	315105000000	320330000000	323621325370	327151330740	332534000000	336133337741	341551343361		
0721	345170347601	350605000000	354213356006	357577000000	363145364717	366461370215	371743373461	375167376667		
0769	400354000000	403447405113	406527410127	411513413070	000000415742	417244420530	000000000000	000000000000		
0817	427026000000	000000432413	433475434543	435570436574	000000000000	441450442353	443234444075	444716445516		
0865	000000447031	000000450241	450710000000	000000452337	452703000000	453530454012	454250454465	454663455036		
0913	455172455405	000000455450	455501455510	455477455447	455376455303	455172000000	455476454505	454276000000		
0961	000000000000	000000000000	452171451623	000000000000	000000000000	000000446433	445736000000	444500443737		
1009	000000000000	441574000000	000000437277	436426435542	434652433744	433027432077	431137430171	427211426221		
1057	000000000000	423172422141	000000422042	000000415710	414521413523	000000411303	000000407034	000000404537		
1105	403371402213	401031377645	376452000000	374043372632	371415000000	000000365512	364256363014	361551360300		
1153	357026000000	354255000000	000000352221	346724000000	000000000000	341317344013	336506000000	000000000000		
1201	331042327525	327211324676	000000322051	320536317225	317514314406	313077000000	310275306776	305501304207		
1249	000000301434	300157276703	000000274171	272733271476	270254267041	265636264442	263250262072	260723257562		
1297	256432255314	254206253111	000000250761	247721246700	245671244677	000000000000	242034241124	000000237361		
1345	235524235710	231112234333	000000233053	000000231675	000000000000	000000000000	000000227023	226543225323		
1393	226057225677	225531000000	000000000000	225207225205	225226225272	225353225476	225636226021	226232226466		
1441	226745227246	227575230144	230542231157	231622232302	233006233536	234312235105	235716000000	237430240331		
1489	241250000000	243164244163	245175246226	247277000000	251477252624	253763255140	000000257537			

FILE 0001 REC 0012 CH 1066

0001	000257000001	000000114210	000154033227	000000023420	000000000252	260760262216	263465000000	000000000000		
0049	271074273430	000000000000	000000000000	301736303352	000000306425	310065311533	313207314667	316355000000		
0097	321547323251	000000326471	330206331725	333447335173	336720340444	342173343723	000000347200	350724352450		
0145	000000355717	357441361154	000000364400	366107367607	371301372767	374454376133	377602401244	402576404324		
0193	405741407346	410744413733	000000000000	000000000000	000000000000	424222425471	426727430150	431357000000		
0241	433730435071	438221437334	000000441510	000000443605	444622445617	446601447546	450478451410	452306000000		
0289	454038000000	455500456277	000000457535	460376461121	461634462232	463321463476	000000464576	465223000000		
0337	000000466645	467237467624	470205470555	471125000000	472031472370	472722000000	473603474130	474454475001		
0385	475327000000	000000000000	000000477374	477722500254	000000000000	000000000000	502365502720	503255503612		
0433	504146504501	505031505380	505705506231	506550000000	507374000000	510201000000	000000511240	511504511741		
0481	000000512775	512573000000	513123000000	513375513475	513556000000	513646513646	000000000000	513511513406		
0529	000000000000	000000000000	512233000000	511625000000	510545510036	507362000000	506126505343	504533503671		

0577	503004502605	501114500114	000000000000	000000000000	000000000000	000000000000	000000463543	462150460532	
0625	457068458373	453052000000	000000000000	444654000000	000000437163	435225443252	431256427245	425216423152	
0673	421073417000	414671412547	410412406247	404072401706	377511375312	373102370671	366452364227	362005000000	
0721	353327353103	350651346425	344204341755	337551335343	333145330754	000000324431	000000320156	316054000000	
0769	311707307656	000000303652	301701000000	000000274167	272331270521	266736265201	263475000000	000000257002	
0817	255437000000	252655251431	250241247104	245004244736	000000000000	000000000000	240267237462	236710236172	
0865	235507235054	000000233113	233577233316	233070232670	000000232403	232320000000	232255232302	232354000000	
0913	232612232775	233206233446	000000232251	000000232213	235640235311	000000237537	240314241115	241745242623	
0961	244540000000	245440246442	247473250550	000000252776	254145255341	255556000000	261303000000	000000265502	
1009	267067270473	272117273561	275237275714	300444000000	303723305473	307254311044	312645314454	315266000000	

FILE 0001 REC 0013 CH 1530

0001	000376000001	000000114210	000203301502	000000023420	000000000372	253752255024	255117000000	260361261532	
0049	262720254127	265351000000	000000000000	272671276213	275547277117	000000302072	303476305106	306534310164	
0097	311623313274	314752000000	320126000000	000000000000	000000000000	000000333474	335323336742	340462342203	
0145	000000348442	347161350672	352406354113	355617000000	000000362504	364170366466	000000370764	372423000000	
0193	375473377105	000000000000	000000000000	400405407737	411257412566	414065415350	415621420060	000000000000	
0241	000000425102	426253427410	430531431640	432732434012	435053000000	437110000000	441062442027	442757443670	
0289	444664448451	446317000000	447770453575	000000452141	452703453430	454144454647	455340000000	456465457123	
0337	457547460155	460575000000	461573462160	462542463115	463467464032	000000000000	000000000000	466177000000	
0385	000000467455	470250000000	470763471350	471744472343	472751473367	474013474446	475111475562	476245000000	
0433	477440500155	500700501443	502205502756	503557000000	505204506032	506673000000	510420000000	512215000000	
0481	514035000000	000000515632	000000520531	521472522435	000000524341	525301526254	527163530104	000000531723	
0529	532521533503	534354535213	536033536645	537436540210	540740541451	542136542574	543307000000	544134544445	
0577	546722545146	548533548474	549500549650	549662000000	000000549102	000000544335	543776000000		
0625	000000542235	541474000000	540932000000	539163535155	534107532775	531262530415	527144000000	524254522642	
0673	521154000000	515700000000	512212510303	506137503340	502330000000	476073473724	471520467265	465003462475	
0721	460144000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000410115	
0769	000000000000	377620375003	372175367421	364615362041	357302354054	352046347356	344703342254	337647335266	
0817	332744330427	325147327217	321524317363	315257313207	311173307215	305276303415	301572300011	276272274612	
0865	273172271425	270315267062	265653265156	263424262377	261415260476	257621257007	256237255533	255070254467	
0913	254126253626	253370253165	253025252722	252654252643	252670252952	253067253241	253445253706	254175254517	
0961	255071255473	255102255005	257314260055	260645261462	262323263213	264127265067	266053267063	270113271166	
1009	272622274404	274940275725	277131300351	301613303071	303462305673	307223310565	312144313535	315140316550	
1057	320175321632	323301324752	326427330112	331601333273	334763336466	340164341662	343357345050	346540350220	
1105	351730353351	355013356447	360071000000	363105364473	366050367407	370734372344	373535375007	376247377464	
1153	400664402040	403177404315	405415406473	407527410542	411534412506	413434414340	415224416064	416703417503	
1201	420262421020	421534422232	422702423340	423754424351	424730425270	425613426115	426404426651	427103427323	
1249	427923427712	430062430221	430343430453	430551430634	430705430747	430776431013	431015431010	430772430742	
1297	430703430636	430556430467	430373430265	430174430023	427671427527	427356427201	427007426612	426411426176	
1345	425604425531	425274425025	424554424273	424004423505	423204422671	422352422026	421472421130	420562420204	
1393	417622417232	416063416227	415514415174	414546414115	413453413004	412330411147	411157410464	407776407252	
1441	406534406116	405225404533	403766403222	402450401670	401102400311	377513376706	376077375266	374451373624	
1489	372774372141	371300370436	367563367707	366025365142	364251363357	362457361555	360646357736		

FILE 0001 REC 0014 CH 0892

0001	000222000001	000000114210	000226347202	000000023420	000000000216	357021356101	355160354234	353303352351	
0049	351411350447	347504346533	345563344065	343627342644	341662340673	337705336712	335716334716	333715332715	
0097	331713330703	327672326681	325645324630	000000322574	321552320527	317503316460	315433314407	313361312332	
0145	311303310253	307223306173	305143304116	303067302044	301015277773	276751275733	274717273706	272675271667	
0193	270603267604	266571265701	264716263733	262757262011	261051260120	257170256253	255345254445	253555252675	
0241	252024251157	250542247526	246726245137	245365244630	244103243377	242703242227	241571241150	240551240167	
0289	237627237306	237005236527	236271235056	235565235512	235375235274	235220235170	235166235207	235255235347	
0337	235466235631	236025236243	236507236777	237315237964	240254240673	241340242027	242545243306	244075244710	
0385	245650246430	247335250282	251235252230	253246254304	255364256464	257405260744	262124262313	264530265757	
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