

Data Set Catalog # 223

Pioneer 6

65-105A-07A

2 tapes

Mariner 5

67-060A-07A

2 tapes

Celestial Mechanics

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

MARINER 5

CELESTIAL MECHANICS MAG. TAPES

67-060A-07A

*PSCM 00001*

This data set has been restored. There were originally two 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 original tapes were created on an IBM 7094 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004487	DS004487	D002517	1	06/14/67 - 06/20/67
		D002518	2	06/18/67 - 11/20/67

PIONEER 6

PSCM 00005

CELESTIAL MECHANICS MAG. TAPES

65-105A-07A

This data set has been restored. There were originally two 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 original tapes were created on an IBM 7094 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004486	DS004486	D002519	1	12/18/65 - 06/04/66
		D002520	2	06/22/66 - 09/24/67

PIONEER 6  
CELESTIAL MECHANICS  
65-105A-07A

556 BPI, Binary, 7 track and 1 file. IBM 7094

Duped and compared tapes, verified formats and time spans for the following tapes:

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-02519	C-00084	12/18/65	6/04/66
D-02520	C-00085	6/22/66	9/24/67

MARINER 5  
CELESTIAL MECHANICS  
67-060A-07A

556 BPI, Binary, 7 track and 1 file. IBM 7094.

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-02517	C-01856	6/14/67	6/20/67
D-02518	C-01857	6/18/67	11/20/67

## J P 2

Here are partial dumps of Pioneer 6, celestial mechanics data tapes. They consist of the beginning and the end of tapes D-φ2519 (A85648) and D-φ2520 (A85650). We tried to verify them with the formats enclosed but ~~we~~ ran into some problems. ~~For one thing record one which is a header label is all right except I would like to know what (computer G stands for.)~~ ~~Secondly -~~ <sup>we</sup> could not get anything out of records 2 and records 3. ~~I would like to know~~ <sup>we</sup> like you to designate what TDP master file Epoch is. ~~I~~ <sup>we</sup> did use the format for ODP file and verified record 4, which is a data file, except that ~~my~~ <sup>the</sup> time span does not agree with what you have on the chart for the two pioneer tapes. Would it possible for you to send me <sup>partial</sup> dumps of your tapes, verifying the time spans you have recorded.



JET PROPULSION LABORATORY California Institute of Technology • 4800 Oak Grove Drive, Pasadena, California 91103

April 15, 1969

Refer to: 311-LE/ac

Mr. Kenneth Michlovitz  
National Space Science Data Center  
Code 601  
Goddard Space Flight Center  
Greenbelt, Maryland 20771

Dear Mr. Michlovitz:

Under separate cover I am returning four magnetic tapes for deposit in the NSSDC which you had earlier sent to Dr. John D. Anderson here at JPL. These tapes have been used to record the two way Doppler radio tracking data from Pioneer VI and Mariner V. Two tapes are used for each spacecraft.

Pioneer VI data for the first 6 months of radio tracking is on one tape and the second 6 months on another. Mariner V coverage is provided with pre midcourse data on one tape and post midcourse to end of mission data on the second tape. All tapes were compiled by the JPL Orbit Data Generator (ODG) program, the format of which is described in Section II of the enclosed JPL Technical Memorandum; "Formats of Edited DSN Tracking Data", W. J. Tousley, TMGTD900-1, 28 March 1967. Please note that the external distribution list indicates Mr. Bruce Sherman at NSSDC should have received 100 copies of this document. All tapes are written with a bit density of 556 bpi, unblocked.

The attached table summarizes the data records on each tape. The relation between internal station number identification and external station number identification is given in the table on page 8 of the aforementioned reference document. Radio tracking data from Pioneers VII, VIII and IX will be forwarded to you as edited tapes become available from the ODG. I will hold the fifth magnetic recording tape you sent Dr. Anderson in reserve for this purpose.

Very truly yours,

Leonard Efron  
Sr. Research Engineer  
Flight Science

APR 24 1969  
# 95  
s

Tape Number	Spacecraft	Data Range	Internal Station I.D.	Number of Data Points	Count Time (Sec)
A85647	Mariner V	Pre Midcourse	2	433	60-600
			3	340	
			5	319	
			13	400	
A85648	Pioneer VI	18 Dec. '65- 9 June '66	2	259	600
			3	1755	
			4	403	
			5	838	
			12	2379	
A85649	Mariner V	18 June - 20 Nov. '67	1	946	10-600
			2	844	
			3	1105	
			4	1147	
			5	12	
			12	982	
A85650	Pioneer VI	Aug. - Dec. 1966	12	229	60-600
			14	2890	

APR 23 1968  
#98  
5



SECTION II  
DATA FILE FROM THE ORBIT DATA GENERATOR

The Data File produced by the Orbit Data Generator (ODG) consists of a record labeling the data file, a series of station summary records, and a series of data records. The following describes each of these records.

The first record contains an Data File label in 9 words of BCD and a check sum word. The label includes the date, time and computer on which the Data File was written.

Each station summary record contains 201 words with the last word being a check sum word. The first record of the series of station summary records contains the following.

Word 0-8. Word 0 equals the mission number. Words 1 to 3 should be ignored. Words 4 through 8 are used by the ODG DISCBU subroutine.

Word 9. Unused.

Words 10-39. Words 10 through 39 contain the last time of the last point for each station in seconds elapsed since the TDP Master File epoch in double precision, floating point. Internal station 15 is first, with internal station 1 listed last.

Words 40-199. Words 40 through 199 contain station summary information. There are 17 words for each station, in which up to 15 data types and station start times may be indicated. Internal station 15 is listed first.

Example:

Word

- 40 = Number of data type 1 observables for station 15.
- 41 = Number of data type 2 observables for station 15.
- 42 = Number of data type 3 observables for station 15.

.  
. .  
. .



Word

55-56 = Start time of station 15 in seconds elapsed since the TDP  
Master File epoch.

57 = Number of data type 1 observables for station 14.

Word 200. Word 200 is a check sum word.

Record 3. Record three continues with the station summaries from word 0  
through 94.

Example:

Word

0 = Number of data type 8 observables for station 6.

.

.

.

92 = Number of data type 15 observables for station 1.

93-94 = Start time of station 1 in seconds elapsed since the TDP  
Master File epoch

Word 95 is unused and word 96 is a check sum word.

The following are data types in the ODG:

		Units
Data type 1	Range (R)	Kilometers
Data type 2	Range Rate (DR)	
Data type 3	Elevation (EL)	Degrees
Data type 4	Azimuth (AZ)	Degrees
Data type 5	Declination (DEC)	Degrees
Data type 6	Hour Angle (HA) or Right Ascension (RA)	Degrees
Data type 7	One-way Doppler (C1)	CPS
Data type 8	Two-way Doppler (CC3 or C2)	CPS
Data type 9	Three-way Doppler (C3)	CPS
Data type 10	Time Resolver (TR)	Microseconds
Data type 11	Range Units (RU)	
Data type 12	Planetary Range Units (PRU)	Nonoseconds
Data type 13-15	Not used	

### Data Records

Following the station summary records are a series of data records; each contain 201 words. Word 201 is a check sum word. The format of the logical record, which is variable in length, is described in Table 3. The intermediate structure of the Data File is shown in Fig. 2.

## APPENDIX I

## FORMAT OF THE ODP FILE

.. 1.

ODP File Logical Record Format

The ODP File is written on disc starting at JPLODP+1001

<u>Word</u>	<u>Contents</u>
0	D = Number of words in logical record
1-2	Floating point double precision Seconds past 1950.0 MSP of time in Word 1 LSP of time in Word 2
3	Frequency increment (floating point)
4	Pass ID (BCD)
5	Code word
6	Observable No. 1 (floating point)
7	Weight code word

I. 1. 1.

Format of Code Word

Bit: S 1                            15 16 17 18      21 22 25 26      35  
b d d d d d d d d d n d n n n n b a x x x x r r r r t t t t t t t t t t t

- a) If bits S and 16 are 0, doppler is L-band;  
If bits S and 16 are 1, doppler is L/S-band;  
If bit S is 0 and 16 is 1, doppler is S-band.
- b) If bit  $d_i = 1$ , then data type  $i$  appears in the logical record.

<u>Bit Number</u>	<u>Data Type</u>
1	Range (R)
2	Range Rate (DR)
3	Elevation (EL)
4	Azimuth (AZ)

<u>Bit Number</u>	<u>Data Type</u>
5	Declination (DEC)
6	Hour Angle (HA) or Right Ascension (RA)
7	One-Way Doppler (C1)
8	Two-way Doppler (CC3 or C2)
9	Three-Way Doppler (C3)
10	Not Used
11	Range Units (RU)

- c) Bits 12 through 15 are not used
- d) If a = 0, Bit  $\lambda$  corresponds to hour angle  
If a = 1, Bit  $\lambda$  corresponds to right ascension
- e) xxxx is the transmitter ID (internal)
- f) rrrr is the receiver ID (internal)
- g) tttttttt is the doppler averaging time (must be less than 1024 seconds).

I.1.4

Format of Weight Code Word

Bit:	S-2	3-5	6-8	9-11	12-14	15-17	18-20	21-35
	$D_1$	$D_2$	$D_3$	$D_4$	$D_5$	$D_6$		$t_s$

- a. The  $D_i$  are indices for a priori weighting by table look-up.
- b. Bits 18-20 are not used
- c.  $t_s$  is the data type sample interval

The ODP File summaries are stored in JPLTDP. They are written after each ODP File update. The summaries are listed by data type and location.

Number of words written:

$$(437)_8 = (287)_{10}$$

Two records are written on disc in reverse order by DCP (200-word records are used):

Record No. 1 = JPLTDP + 7899

Record No. 2 = JPLTDP + 7898

Information is stored forward within each record. When the records are reversed in core, information is:

Words 1-30: Double precision last time for each station  
(stored backward)

Words 31-287: ODP File summaries stored backwards  
as BSS type storage

The File summaries are (starting backwards from "SUM" = Word 287):

SUM-17 = No. of data type 1 observables for  
Station 1

SUM-16 = No. of data type 2 observables for  
Station 1

SUM-3 = No. of data type 15 observables for  
Station 1

SUM-2 = First data point time for Station 1

SUM-1 = Last data point time for Station 1

SUM-2 x 17 = No. of data type 1 observables for  
Station 2.

Continue similarly for 15 stations.

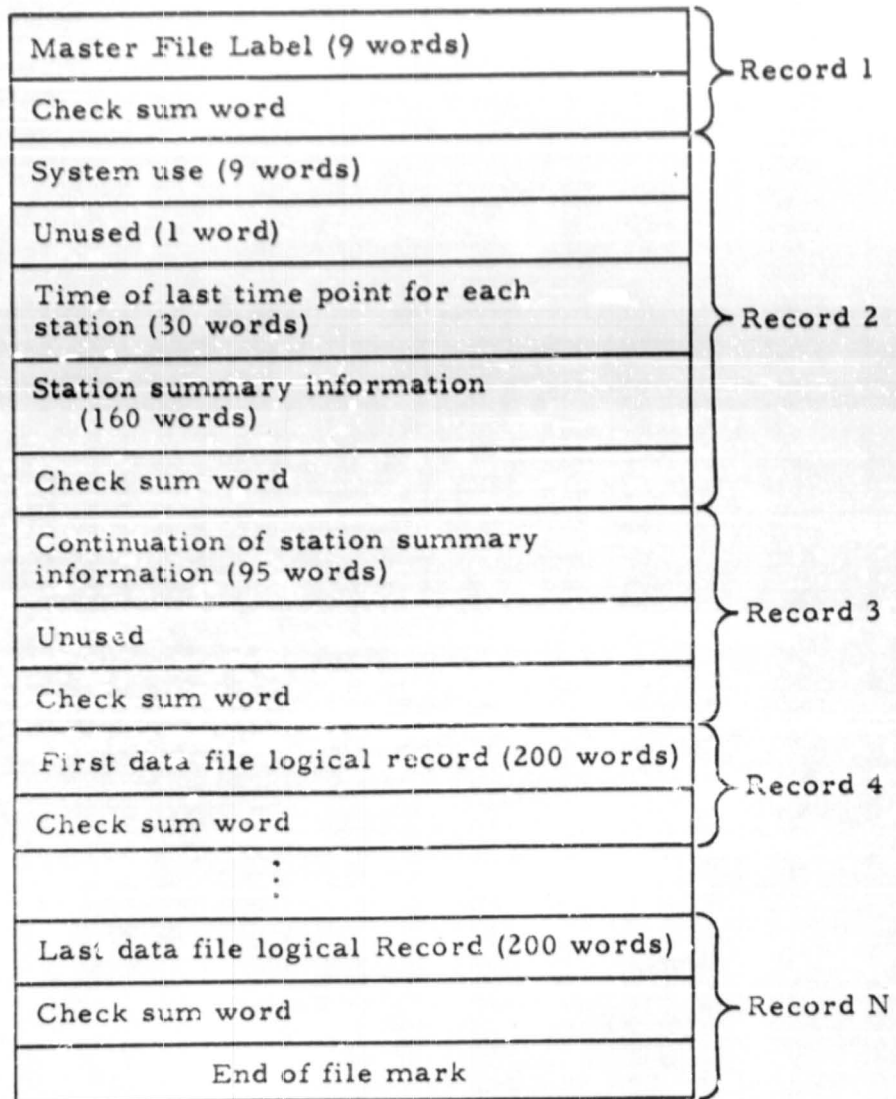


Fig. 2. Data File



RECORD 1

0001	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0049	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0097	235756543340	202400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0145	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	235753747172	202400000000
0193	235755053052	202400000000	235754127743	202400000000	235747417776	202400000000	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	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0433	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0481	000000000000	00000000373	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0529	000000000000	22560247600	230531305242	000000000000	000000000000	000000000000	000000000000	000000000000
0577	000000000000	000000000000	000000004513	000000000000	000000000000	000000000000	000000000000	000000000000
0625	000000000000	000000000000	222507045000	230716427062	000000000000	000000000000	000000000000	000000000000
0673	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0721	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0769	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0817	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0865	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0913	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0961	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
1009	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
1057	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
1105	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
1153	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000

Dump of D-02519

FILE 0001 REC 0003 CH 0582

0001	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0049	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0097	000000000000	000000001506	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0145	000000000000	222574672000	230555520552	000000000000	000000000000	000000000000	000000000000	000000000000
0193	000000000000	000000000000	000000000523	000000000000	000000000000	000000000000	000000000000	000000000000
0241	000000000000	000000000000	227433677044	230633013552	000000000000	000000000000	000000000000	000000000000
0289	000000000000	000000000000	000000000000	000000003333	000000000000	000000000000	000000000000	000000000000
0337	000000000000	000000000000	000000000000	222515676000	230575647222	000000000000	000000000000	000000000000
0385	000000000000	000000000000	000000000000	000000000000	000000000403	000000000000	000000000000	000000000000
0433	000000000000	000000000000	000000000000	000000000000	226625561711	227722521744	000000000000	000000000000
0481	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0529	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0577	772736000003							

FILE 0001 REC 0004 CH 1206

DEC 18, 1965

0001	000007000000	235740311041	202400000000	225744566400	000261030502	001002631130	220436415343	314333001130
0049	000007000000	235740311267	202400000000	225744566400	000261030502	001002631130	220437654136	314333001130
0097	000007000000	235740311515	202400000000	225744566400	000261030502	001002631130	220441054331	314333001130
0145	000007000000	235740312607	202400000000	225744566400	000361030502	001002147130	217707313214	314333001130
0193	000007000000	235740313035	202400000000	225744566400	000361030502	001002147130	217712165357	314333001130
0241	000007000000	235740313263	202400000000	225744566400	000361030502	001002147130	217715126306	314333001130
0289	000007000000	235740314204	202400000000	225744566400	000361030502	001002147130	217726710324	314333001130
0337	000007000000	235740314432	202400000000	225744566400	000361030502	001002147130	217732147211	314333001130
0385	000007000000	235740314660	202400000000	225744566400	000361030502	001002147130	217735453416	314333001130
0433	000007000000	235740315106	202400000000	225744566400	000361030502	001002147130	217741021433	314333001130
0481	000007000000	235740316445	202400000000	225744566400	000361030502	001002147130	217762511012	314333001130
0529	000007000000	235740317044	202400000000	225744566400	000361030502	001002147130	217770726000	314333001130
0577	000007000000	235740317272	202400000000	225744566400	000361030502	001002147130	217774476757	314333001130
0625	000007000000	235740317556	202400000000	225744566400	000361030502	001002147130	220400421503	314333001130
0673	000007000000	235740320004	202400000000	225744566400	000361030502	001002147130	220402303573	314333001130
0721	000007000000	235740320232	202400000000	225744566400	000361030502	001002147130	220404161451	314333001130
0769	000007000000	235740320460	202400000000	225744566400	000361030502	001002147130	220406031132	314333001130
0817	000007000000	235740321134	202400000000	225744566400	000361030502	001002147130	220411515653	314333001130

DATA RECORD



FILE 0001 REC 0004 CH 1206

0865	000007000000	235740321362	202400000000	225744566400	000361030502	001002147130	220413327012	314333001130
0913	000007000000	235740321610	202400000000	225744566400	000361030502	001002147130	220415122203	314333001130
0961	000007000000	235740322170	202400000000	225744566400	000361030502	001002147130	220417702437	314333001130
1009	000007000000	235740323301	202400000000	225744566400	000361030502	001002147130	220426055166	314333001130
1057	000007000000	235740323527	202400000000	225744566400	000361030502	001002147130	220427442065	314333001130
1105	000007000000	235740324126	202400000000	225744566400	000361030502	001002147130	220431752166	314333001130
1153	000007000000	235740324354	202400000000	225744566400	000361030502	001002147130	220433223011	314333001130
1201	245551000004							

FILE 0001 REC 0005 CH 1206

0001	000007000000	235740324640	202400000000	225744566400	000361030502	001002147130	220434633075	314333001130
0049	000007000000	235740325066	202400000000	225744566400	000361030502	001002147130	220435776202	314333001130
0097	000007000000	235740325523	202400000000	225744566400	000361030502	001002147130	220440051407	314333001130
0145	000007000000	235740326406	202400000000	225744566400	000361030502	401002253130	216403564372	314333001130
0193	000007000000	235740326747	202400000000	225744566400	000361030502	401002253130	216405503452	314333001130
0241	000007000000	235740330212	202400000000	225744566400	000361030502	401002253130	216414532215	314333001130
0289	000007000000	235740330440	202400000000	225744566400	000361030502	401002253130	216416374073	314333001130
0337	000007000000	235740330666	202400000000	225744566400	000361030502	401002253130	216420310476	314333001130
0385	000007000000	235740331114	202400000000	225744566400	000361030502	401002253130	216422275645	314333001130
0433	000007000000	235740331342	202400000000	225744566400	000361030502	401002253130	216424331452	314333001130
0481	000007000000	235740331741	202400000000	225744566400	000361030502	401002253130	216430050037	314333001130
0529	000007000000	235740332357	202400000000	225744566400	000361030502	401002253130	216434112724	314333001130
0577	000007000000	235740332720	202400000000	225744566400	000361030502	401002253130	216437531135	314333001130
0625	000007000000	235740333507	202400000000	225744566400	000361030502	401002253130	216445622055	314333001130
0673	000007000000	235740335616	202400000000	225744566400	000361030502	401002253130	216470456636	314333001130
0721	000007000000	235740336044	202400000000	225744566400	000361030502	401002253130	216473146303	314333001130
0769	000007000000	235740336272	202400000000	225744566400	000361030502	401002253130	216475631274	314333001130
0817	000007000000	235740337326	202400000000	225744566400	000361030502	401002253130	216507001117	314333001130
0865	000007000000	235740346327	202400000000	225744565200	000361030503	001002631130	217626512037	314333001130
0913	000007000000	235740346670	202400000000	225744565200	000361030503	001002631130	217630512046	314333001130
0961	000007000000	235740347116	202400000000	225744565200	000361030503	001002631130	217632132674	314333001130
1009	000007000000	235740347344	202400000000	225744565200	000361030503	001002631130	217633673433	314333001130
1057	000007000000	235740347572	202400000000	225744565200	000361030503	001002631130	217635552240	314333001130
1105	000007000000	235740350020	202400000000	225744565200	000361030503	001002631130	217637545214	314333001130
1153	000007000000	235740350246	202400000000	225744565200	000361030503	001002631130	217641652232	314333001130
1201	750046000005							

FILE 0001 REC 0006 CH 1206

0001	000007000000	235740350474	202400000000	225744565200	000361030503	001002631130	217644067202	314333001130
0049	000007000000	235740350722	202400000000	225744565200	000361030503	001002631130	217646411534	314333001130
0097	000007000000	235740351167	202400000000	225744565200	000361030503	001002631130	217651244703	314333001130
0145	000007000000	235740351415	202400000000	225744565200	000361030503	001002631130	217654001000	314333001130
0193	000007000000	235740351643	202400000000	225744565200	000361030503	001002631130	217656632320	314333001130
0241	000007000000	235740352071	202400000000	225744565200	000361030503	001002631130	217661556152	314333001130
0289	000007000000	235740352317	202400000000	225744565200	000361030503	001002631130	217664571265	314333001130
0337	000007000000	235740352545	202400000000	225744565200	000361030503	001002631130	217667670552	314333001130
0385	000007000000	235740352773	202400000000	225744565200	000361030503	001002631130	217673051000	314333001130
0433	000007000000	235740353221	202400000000	225744565200	000361030503	001002631130	217676306706	314333001130
0481	000007000000	235740353466	202400000000	225744565200	000361030503	001002631130	217702076531	314333001130
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0577	000007000000	235740354142	202400000000	225744565200	000361030503	001002631130	217711105661	314333001130
0625	000007000000	235740354370	202400000000	225744565200	000361030503	001002631130	217714571517	314333001130
0673	000007000000	235740354616	202400000000	225744565200	000361030503	001002631130	217720310467	314333001130
0721	000007000000	235740355044	202400000000	225744565200	000361030503	001002631130	217724056720	314333001130
0769	000007000000	235740355272	202400000000	225744565200	000361030503	001002631130	217727650546	314333001130
0817	000007000000	235740355520	202400000000	225744565200	000361030503	001002631130	217733462042	314333001130
0865	000007000000	235740355765	202400000000	225744565200	000361030503	001002631130	217737611531	314333001130
0913	000007000000	235740356213	202400000000	225744565200	000361030503	001002631130	217743446727	314333001130
0961	000007000000	235740356441	202400000000	225744565200	000361030503	001002631130	217747307371	314333001130
1009	000007000000	235740356667	202400000000	225744565200	000361030503	001002631130	217753147320	314333001130
1057	000007000000	235740357115	202400000000	225744565200	000361030503	001002631130	217757002552	314333001130
1105	000007000000	235740357343	202400000000	225744565200	000361030503	001002631130	217762625320	314333001130
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1201	635165000006							



FILE 0001 REC 0006 CH 1206  
FILE 0001 REC 0007 CH 1206

0001	000007000000	235740360264	202400000000	225744565200	000361030503	001002631130	217776256240	314333001130
0049	000007000000	235740360512	202400000000	225744565200	000361030503	001002631130	220400772345	314333001130
0097	000007000000	235740360740	202400000000	225744565200	000361030503	001002631130	220402617442	314333001130
0145	000007000000	235740361166	202400000000	225744565200	000361030503	001002631130	220404424531	314333001130
0193	000007000000	235740361414	202400000000	225744565200	000361030503	001002631130	220406207734	314333001130
0241	000007000000	235740361642	202400000000	225744565200	000361030503	001002631130	220407747442	314333001130
0289	000007000000	235740362070	202400000000	225744565200	000361030503	001002631130	220411461633	314333001130
0337	000007000000	235740362563	202400000000	225744565200	000361030503	001002631130	220414715336	314333001130
0385	000007000000	235740373142	202400000000	225744566400	000461030503	001002147130	217766464771	314333001130
0433	000007000000	235740373522	202400000000	225744566400	000461030503	001002147130	217774367552	314333001130
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0529	000007000000	235740375117	202400000000	225744566400	000461030503	001002147130	220407045540	314333001130
0577	000007000000	235740376057	202400000000	225744566400	000461030503	001002147130	220414026506	314333001130
0625	000007000000	235740376305	202400000000	225744566400	000461030503	001002147130	220415371017	314333001130
0673	000007000000	235740377702	202400000000	225744566400	000461030503	401002253130	215742546535	314333001130
0721	000007000000	235740400130	202400000000	225744566400	000461030503	401002253130	215744570132	314333001130
0769	000007000000	235740400356	202400000000	225744566400	000461030503	401002253130	215746771174	314333001130
0817	000007000000	235740400604	202400000000	225744566400	000461030503	401002253130	215751347666	314333001130
0865	000007000000	235740401032	202400000000	225744566400	000461030503	401002253130	215754101351	314333001130
0913	000007000000	235740401260	202400000000	225744566400	000461030503	401002253130	215757003123	314333001130
0961	000007000000	235740401506	202400000000	225744566400	000461030503	401002253130	215762052272	314333001130
1009	000007000000	235740401734	202400000000	225744566400	000461030503	401002253130	215765263511	314333001130
1057	000007000000	235740402162	202400000000	225744566400	000461030503	401002253130	215770633666	314333001130
1105	000007000000	235740402410	202400000000	225744566400	000461030503	401002253130	215774337334	314333001130
1153	000007000000	235740402636	202400000000	225744566400	000461030503	401002253130	216400075257	314333001130

1201 037604000007

FILE 0001 REC 0008 CH 1206

0001	000007000000	235740403064	202400000000	225744566400	000461030503	401002253130	216402064671	314333001130
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0097	000007000000	235740403540	202400000000	225744566400	000461030503	401002253130	216406231274	314333001130
0145	000007000000	235740403766	202400000000	225744566400	000461030503	401002253130	216410402073	314333001130
0193	000007000000	235740404214	202400000000	225744566400	000461030503	401002253130	216412614073	314333001130
0241	000007000000	235740404442	202400000000	225744566400	000461030503	401002253130	216415065135	314333001130
0289	000007000000	235740404670	202400000000	225744566400	000461030503	401002253130	216417372636	314333001130
0337	000007000000	235740405116	202400000000	225744566400	000461030503	401002253130	216421732460	314333001130
0385	000007000000	235740405344	202400000000	225744566400	000461030503	401002253130	216424322004	314333001130
0433	000007000000	235740405572	202400000000	225744566400	000461030503	401002253130	216426736443	314333001130
0481	000007000000	235740405020	202400000000	225744566400	000461030503	401002253130	216431375467	314333001130
0529	000007000000	235740405246	202400000000	225744566400	000461030503	401002253130	216434054407	314333001130
0577	000007000000	235740420544	202400000000	225744552000	000461030504	001002631130	217603334075	314333001130
0625	000007000000	235740421011	202400000000	225744552000	000461030504	001002631130	217605011063	314333001130
0673	000007000000	235740421237	202400000000	225744552000	000461030504	001002631130	217606501517	314333001130
0721	000007000000	235740421465	202400000000	225744552000	000461030504	001002631130	217610311623	314333001130
0769	000007000000	235740421713	202400000000	225744552000	000461030504	001002631130	217612237661	314333001130
0817	000007000000	235740422141	202400000000	225744552000	000461030504	001002631130	217614301623	314333001130
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0913	000007000000	235740422615	202400000000	225744552000	000461030504	001002631130	217620741000	314333001130
0961	000007000000	235740423043	202400000000	225744552000	000461030504	001002631130	217623331517	314333001130
1009	000007000000	235740423346	202400000000	225744552000	000461030504	001002631130	217626663311	314333001130
1057	000007000000	235740423574	202400000000	225744552000	000461030504	001002631130	217631501336	314333001130
1105	000007000000	235740424022	202400000000	225744552000	000461030504	001002631130	217634413674	314333001130
1153	000007000000	235740424250	202400000000	225744552000	000461030504	001002631130	217637417602	314333001130

1201 066633000010

FILE 0001 REC 0009 CH 1206

0001	000007000000	235740424476	202400000000	225744552000	000461030504	001002631130	217642512033	314333001130
0049	000007000000	235740424724	202400000000	225744552000	000461030504	001002631130	217645667424	314333001130
0097	000007000000	235740425152	202400000000	225744552000	000461030504	001002631130	217651125000	314333001130
0145	000007000000	235740425645	202400000000	225744552000	000461030504	001002631130	217660306125	314333001130
0193	000007000000	235740426073	202400000000	225744552000	000461030504	001002631130	217663742320	314333001130
0241	000007000000	235740426321	202400000000	225744552000	000461030504	001002631130	217667440146	314333001130
0289	000007000000	235740426547	202400000000	225744552000	000461030504	001002631130	217673173724	314333001130

0337	000007000000	235740426775	202400000000	225744552000	000461030504	001002631130	217676761540	314333001130
0385	000007000000	235740427223	202400000000	225744552000	000461030504	001002631130	217702575623	314333001130
0433	000007000000	235740427622	202400000000	225744552000	000461030504	001002631130	217711172446	314333001130
0481	000007000000	235740430144	202400000000	225744552000	000461030504	001002631130	217716507067	314333001130
0529	000007000000	235740430372	202400000000	225744552000	000461030504	001002631130	217722405724	314333001130
0577	000007000000	235740430620	202400000000	225744552000	000461030504	001002631130	217726307037	314333001130
0625	000007000000	235740431046	202400000000	225744552000	000461030504	001002631130	217732206437	314333001130
0673	000007000000	235740431274	202400000000	225744552000	000461030504	001002631130	217736100341	314333001130
0721	000007000000	235740431522	202400000000	225744552000	000461030504	001002631130	217741760635	314333001130
0769	000007000000	235740431750	202400000000	225744552000	000461030504	001002631130	217745623525	314333001130



0193	000007000000	236406450272	203400000000	225761612600	060061000001	001002252074	220723666104	314333000074
024	000007000000	236406450302	203000000000	225761612600	060061000001	001002252074	220723640567	314333000074
0289	000007000000	236406450311	203400000000	225761612600	060061000001	001002252074	220723414357	314333000074
0337	000007000000	236406450321	203000000000	225761612600	060061000001	001002252074	220723271315	314333000074
0385	000007000000	236406450330	203400000000	225761612600	060061000001	001002252074	220723147421	314333000074
0433	000007000000	236406450340	203000000000	225761612600	060061000001	001002252074	220723026632	314333000074
0481	000007000000	236406450347	203400000000	225761612600	060061000001	001002252074	220722707211	314333000074
0529	000007000000	236406450357	203000000000	225761612600	060061000001	001002252074	220722570567	314333000074
0577	000007000000	236406450366	203400000000	225761612600	060061000001	001002252074	220722453315	314333000074
0625	000007000000	236406450424	203400000000	225761606700	060061000001	001002252074	220722000632	314333000074
0673	000007000000	236406450434	203000000000	225761605700	060061000001	001002252074	220721671000	314333000074
0721	000007000000	236406450566	203000000000	225761605600	060061000001	001002252074	220701275357	314333000074
0769	000007000000	236406450575	203400000000	225761605600	060061000001	001002672074	220701130125	314333000074
0817	000007000000	236406450605	203000000000	225761605600	060061000001	001002672074	220700763653	314333000074
0865	000007000000	236406450614	203400000000	225761605600	060061000001	001002672074	220700620463	314333000074
0913	000007000000	236406450624	203000000000	225761605600	060061000001	001002672074	220700455232	314333000074
0961	000007000000	236406450671	203400000000	225761605600	060061000001	001002672074	220677521504	314333000074
1009	000007000000	236406450701	203000000000	225761605600	060061000001	001002672074	220677365146	314333000074
1057	000007000000	236406450710	203400000000	225761605600	060061000001	001002672074	220677231567	314333000074
1105	000007000000	236406450720	203000000000	225761605600	060061000001	001002672074	220677077274	314333000074
1153	000007000000	236406450727	203400000000	225761605600	060061000001	001002672074	220676745525	314333000074
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FILE 0001 REC 0012 CH 1206

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0097	000007000000	236406624673	203000000000	225761576200	060061000006	001002672454	220532601561	314333000454
0145	000007000000	236406625002	203200000000	225761576200	060061000006	001002673130	220534317757	314333001130
0193	000007000000	236406625063	203000000000	225761576200	060061000006	001002672264	220535427674	314333000264
024	000007000000	236406625162	203600000000	225761576200	060061000006	001002673130	220537032030	314333001130
0289	000007000000	236406625247	203200000000	225761576200	060061000006	001002672360	220540230011	314333000360
0337	000007000000	236406625343	203200000000	225761576200	060061000006	001002672740	220541555332	314333000740
0385	000007000000	236406625465	203600000000	225761576200	060061000006	001002673130	220543552640	314333001130
0433	000007000000	236406625600	203600000000	225761576200	060061000006	001002673130	220545407244	314333001130
0481	000007000000	236406625713	203600000000	225761576200	060061000006	001002673130	220547245072	314333001130
0529	000007000000	236406626013	203400000000	225761576200	060061000006	001002672644	220550667567	314333000644
0577	000007000000	236406626132	203200000000	225761576200	060061000006	001002673130	220552601161	314333001130
0625	000007000000	236406626245	203200000000	225761576200	060061000006	001002673130	220554430442	314333001130
0673	000007000000	236406626360	203200000000	225761576200	060061000006	001002673130	220556252146	314333001130
0721	000007000000	236406626473	203200000000	225761576200	060061000006	001002673130	220560064244	314333001130
0769	000007000000	236406626606	203200000000	225761576200	060061000006	001002673130	220561665146	314333001130
0817	000007000000	236406626721	203200000000	225761576200	060061000006	001002673130	220563453044	314333001130
0865	000007000000	236406627034	203200000000	225761576200	060061000006	001002673130	220565224154	314333001130
0913	000007000000	236406627105	203400000000	225761576200	060061000006	001002672074	220566157042	314333000074
0961	000007000000	236406627153	203000000000	225761576200	060061000006	001002672454	220567031762	314333000454
1009	000007000000	236406627262	203200000000	225761576200	060061000006	001002673130	220570471437	314333001130
1057	000007000000	236406627375	203200000000	225761576200	060061000006	001002673130	220572162350	314333001130
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1153	000007000000	236406627623	203200000000	225761576200	060061000006	001002673130	220575250555	314333001130
1201	155222000073							

FILE 0001 REC 0013 CH 1206

0001	000007000000	236406627736	203200000000	225761576200	060061000006	001002673130	220576642775	314333001130
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0097	000007000000	236406630164	203200000000	225761576200	060061000006	001002673130	220601516332	314333001130
0145	000007000000	236406630467	203200000000	225761603700	060061000006	001002105130	220475773465	314333001130
0193	000007000000	236406630602	203200000000	225761603700	060061000006	001002105130	220476643215	314333001130
024	000007000000	236406630715	203200000000	225761603700	060061000006	001002105130	220477552033	314333001130
0289	000007000000	236406631030	203200000000	225761603700	060061000006	001002105130	220500547016	314333001130
0337	000007000000	236406631143	203200000000	225761603700	060061000006	001002105130	220501601144	314333001130
0385	000007000000	236406631256	203200000000	225761603700	060061000006	001002105130	220502677440	314333001130
0433	000007000000	236406631371	203200000000	225761603700	060061000006	001002105130	220504041007	314333001130
0481	000007000000	236406631504	203200000000	225761603700	060061000006	001002105130	220505244302	314333001130
0529	000007000000	236406631617	203200000000	225761603700	060061000006	001002105130	220506510311	314333001130
0577	000007000000	236406631732	203200000000	225761603700	060061000006	001002105130	220510013625	314333001130
0625	000007000000	236406632045	203200000000	225761603700	060061000006	001002105130	220511355137	314333001130



FILE 0001 REC 0013 CH 1206

0573	000007000000	236406632160	203200000000	225761603700	060061000006	001002105130	220512753103	314333001130
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0769	000007000000	236406632335	203000000000	225761603700	060061000006	001002104264	220515160411	314333000264
0817	000007000000	236406632434	203600000000	225761603700	060061000006	001002105130	220516461042	314333001120
0865	000007000000	236406632506	203000000000	225761603700	060061000006	001002104074	220517400414	314333000074
0913	000007000000	236406632576	203200000000	225761603700	060061000006	001002105130	220520605511	314333001130
0961	000007000000	236406632711	203200000000	225761603700	060061000006	001002105130	220522363072	314333001130
1009	000007000000	236406633024	203200000000	225761603700	060061000006	001002105130	220524164147	314333001130
1057	000007000000	236406633120	203200000000	225761603700	060061000006	001002104550	220525516311	314333000550
1105	000007000000	236406633233	203200000000	225761603700	060061000006	001002105130	220527356653	314333001130
1153	000007000000	236406633346	203200000000	225761603700	060061000006	001002105130	220531235377	314333001130
1201	723326000074							

FILE 0001 REC 0014 CH 1206

0001	000007000000	236406633417	203400000000	225761603700	060061000006	001002104074	220532251027	314333000074
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0097	000007000000	236406633633	203400000000	225761603700	060061000006	001002105130	220535664716	314333001130
0145	000007000000	236406633746	203400000000	225761603700	060061000006	001002105130	220537607550	314333001130
0193	000007000000	236406634061	203400000000	225761603700	060061000006	001002105130	220541540662	314333001130
0241	000007000000	236406634147	203200000000	225761603700	060061000006	001002104264	220543045504	314333000264
0289	000007000000	236406634172	203700000000	225761603700	060061000006	001002104156	220543450712	314333000156
0337	000007000000	236406634206	203200000000	225761603700	000161000001	001002104074	220543677244	314333000074
0385	000007000000	236406634215	203600000000	225761603700	000161000001	001002104074	220544001674	314333000074
0433	000007000000	236406634225	203200000000	225761603700	000161000001	001002104074	220544124611	314333000074
0481	000007000000	236406634236	203400000000	225761603700	060061000006	001002104074	220544317145	314333000074
0529	000007000000	236406634246	203000000000	225761603700	060061000006	001002104074	220544462317	314333000074
0577	000007000000	236406634255	203400000000	225761603700	060061000006	001002104074	220544625453	314333000074
0625	000007000000	236406634255	203000000000	225761603700	060061000006	001002104074	220544770761	314333000074
0673	000007000000	236406634274	203400000000	225761603700	060061000006	001002104074	220545134026	314333000074
0721	000007000000	236406634557	203000000000	225761603700	060061000006	001002104074	220551625010	314333000074
0769	000007000000	236406634566	203400000000	225761603700	060061000006	001002104074	220551767737	314333000074
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0961	000007000000	236406634624	203400000000	225761603700	060061000006	001002104074	220552603205	314333000074
1009	000007000000	236406634634	203000000000	225761603700	060061000006	001002104074	220552745740	314333000074
1057	000007000000	236406634643	203400000000	225761603700	060061000006	001002104074	220553110472	314333000074
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0001	000007000000	236406634672	203000000000	225761603700	060061000006	001002104074	220553560224	314333000074
0049	000007000000	236406634701	203400000000	225761603700	060061000006	001002104074	220553722565	314333000074
0097	000007000000	236406634711	203000000000	225761603700	060061000006	001002104074	220554065107	314333000074
0145	000007000000	236406634720	203400000000	225761603700	060061000006	001002104074	220554227352	314333000074
0193	000007000000	236406634730	203000000000	225761603700	060061000006	001002104074	220554371566	314333000074
0241	000007000000	236406634737	203400000000	225761603700	060061000006	001002104074	220554533747	314333000074
0289	000007000000	236406634747	203000000000	225761603700	060061000006	001002104074	220554676021	314333000074
0337	000007000000	236406634756	203400000000	225761603700	060061000006	001002104074	220555040101	314333000074
0385	000007000000	236406634766	203000000000	225761603700	060061000006	001002104074	220555202111	314333000074
0433	000007000000	236406634775	203400000000	225761603700	060061000006	001002104074	220555344036	314333000074
0481	000007000000	236406635005	203000000000	225761603700	060061000006	001002104074	220555505720	314333000074
0529	000007000000	236406635014	203400000000	225761603700	060061000006	001002104074	220555647545	314333000074
0577	000007000000	236406635024	203000000000	225761603700	604546452560	001002104074	220556011306	314333000074
0625	000007000000	236406635033	203400000000	225761603700	604546452560	001002104074	220556153021	314333000074
0673	000007000000	236406635043	203000000000	225761603700	604546452560	001002104074	220556314417	314333000074
0721	000007000000	236406635052	203400000000	225761603700	604546452560	001002104074	220556456010	314333000074
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0913	000007000000	236406635110	203400000000	225761603700	604546452560	001002104074	220557262770	314333000074
0961	000007000000	236406635120	203000000000	225761603700	604546452560	001002104074	220557423772	314333000074
1009	000007000000	236406635127	203400000000	225761603700	604546452560	001002104074	220557564716	314333000074

FILE 0001 REC 0015 CH 1206

1057	000007000000	236406635137	203000000000	225761603700	604546452560	001002104074	220557725576	314333000074
1105	000007000000	236406635146	203400000000	225761603700	604546452560	001002104074	220560667344	314333000074
1153	000007000000	236406635156	203000000000	225761603700	604546452560	001002104074	220560227062	314333000074
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FILE 0001 REC 0016 CH 1206

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0097	000007000000	236406635204	203400000000	225761603700	604546452560	001002104074	220560670303	314333000074
0145	000007000000	236406635214	203000000000	225761603700	604546452560	001002104074	220561030452	314333000074
0193	000007000000	236406635223	203400000000	225761603700	604546452560	001002104074	220561170540	314333000074
0241	000007000000	236406635233	203000000000	225761603700	604546452560	001002104074	220561330534	314333000074
0289	000007000000	236406635242	203400000000	225761603700	604546452560	001002104074	220561470462	314333000074
0337	000007000000	236406635252	203000000000	225761603700	604546452560	001002104074	220561630257	314333000074
0385	000007000000	236406635261	203400000000	225761603700	604546452560	001002104074	220561770006	314333000074
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0529	000007000000	236406635290	203000000000	225761603700	604546452560	001002104074	220562426175	314333000074
0577	000007000000	236406635307	203400000000	225761603700	604546452560	001002104074	220562565350	314333000074
0625	000007000000	236406635327	203000000000	225761603700	604546452560	001002104074	220562724354	314333000074
0673	000007000000	236406635336	203400000000	225761603700	604546452560	001002104074	220563063301	314333000074
0721	000007000000	236406635346	203000000000	225761603700	604546452560	001002104074	220563222146	314333000074
0769	000007000000	236406635355	203400000000	225761603700	604546452560	001002104074	220563360644	314333000074
0817	000007000000	236406635365	203000000000	225761603700	060061000006	001002104074	220552132657	314333000074
0865	000007000000	236406635375	203400000000	225761603700	060061000006	001002104074	220552275531	314333000074
0913	000007000000	236406635385	203000000000	225761603700	060061000006	001002104074	220552440372	314333000074
0961	000007000000	236406635394	203400000000	225761603700	060061000006	001002104074	220552603205	314333000074
1009	000007000000	236406635404	203000000000	225761603700	060061000006	001002104074	220552745740	314333000074
1057	000007000000	236406635413	203400000000	225761603700	060061000006	001002104074	220553110472	314333000074
1105	000007000000	236406635423	203000000000	225761603700	060061000006	001002104074	220553253171	314333000074
1153	000007000000	236406635432	203400000000	225761603700	060061000006	001002104074	220553415621	314333000074
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