DATA SET CATALOG #96

Norad Orbital Element Tapes
CORRNAD 9 tapes

RA 7532

DATA SET: NORAD

DATE: September 30, 1971

OBJECTIVE: To force trailing zeros in place of blanks in the satellite number field.

DESCRIPTION: This program is designed to take the first satellite number within a set (set = six 80 character image data record) and mask the field with zeros when blank. The records must be deblocked by a previous program before masking.

INPUT:

Cards: One card is read-in to indicate the number of tapes to be mounted.

Cols. 1-2 = tape count

Tapes: As many as 99 tapes can be mounted sequentially. They are all 800 BPI, 7 track, BCD, with block size equal to 80 words, or 480 bytes. These tapes are deblocked from their original 640 words by another program before they are input to this program on unit A5.

OUTPUT:

Tapes: Same format as input, output unit is A6.

Printer: Online messages to the operator to mount tapes.

March 3, 1971

NORAD ORBITAL ELEMENT TAPES

This data set consists of 9 NORAD Orbital Element Tapes. These tapes are 1 file, 800 BPI, 7-track, BCD. The first 5 tapes in the data set contain element sets for 1959 through 1968. The last 3 tapes are for 1969 and 1970. The sixth tape in the data set (D-05161) contains trial element sets. The data on this tape should be disregarded.

The data on the tapes is ordered by catalog number found in columns 3-7 of each logical record. Each catalog number refers to an object in orbit or one that has been in orbit. These objects are either satellites or parts of satellites which have decayed.

Each physical record (3840 characters) contains 8 logical records of 480 characters. Each logical record consists of a set of 6, eighty character card images.

Three programs were written for these NORAD tapes. They are:

1. A program that lists the third element set, if available, for all selected satellites.
2. A program that lists all of the element sets for the selected satellites.
3. A program that redupes the tapes, eliminating bad data.

This data set catalog contains sample outputs from programs #1 and #3. The output from the second program is being used by the acquisition agents at this time.

D#	C#	CATALOG NUMBERS	TIME SPAN
D-05156	C-04708	4 - 463	1959 - 1968
D-05157	C-04709	463 - 975	1959 - 1968
D-05158	C-04710	975 - 1670	1959 - 1968
D-05159	C-04711	1670 - 2403	1959 - 1968
D-05160	C-04712	2403 - 3834	1959 - 1968
D-05161	C-04713		
D-05162	C-04714	4 - 2573	1969 - 1970
D-05163	C-04715	2573 - 3938	1969 - 1970
D-05164	C-04716	3938 - 4370	1969 - 1970

CHARACTER POSITION
1
2
3-7
8
9
10
11
12-15
16
17-27
28
29-30
31
32
33
34
35
36-39
40
41-46
47
48
49-51
52

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36-39
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41-46
47
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49-51
52

NORAD ORBITAL ELEMENT TAPES
FORMAT

FIGURE 1

CHARACTER POSITION	FORMAT	SYMBOL	DESCRIPTION
1	I1		CARD NUMBER = 1
2	1x		BLANK
3-7	I5	KATNØ	CATALØG NUMBER
8	1x		BLANK
9	A1		CLASN
10	1x		BLANK
11	A1		SØURCE
12-15	I4		ELEMENT NUMBER
16	1x		
17-27	A6,A4		INTERNATIONAL NAME
28	1x		BLANK
29-30	I2		EPHØMERIS
31	I1		DIFFERENTIAL CØRRECTION
32	I1		ATMØSPHERE
33	1x		BLANK
34	I1		ACCURACY
35	1x		BLANK
36-39	F4.1		ESTIMATE LIFE FROM EPØCH
40	1x		BLANK
41-46	I6		REVØLUTIØNS FROM LAUNCH AT EPØCH
47	1x		BLANK
48	I1	EPKYR	YEAR ØF EPØCH
49-51	I3	EPKDA 1	JULIAN DAY ØF EPØCH
52	1x		BLANK