

COMPUTER TECHNOLOGY

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1620 GENERAL PROGRAM LIBRARY Five-Card Printer Core Dump Programs

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COMMON USERS GROUP PROGRAM REVIEW AND EVALUATION
(fill out in typewriter, ink or pencil)

Program No. _____

Date _____

Program Name: _____

1. Does the abstract adequately describe what the program is and what it does? Yes ___ No ___
Comment _____
2. Does the program do what the abstract says? Yes ___ No ___
Comment _____
3. Is the description clear, understandable, and adequate? Yes ___ No ___
Comment _____
4. Are the Operating Instructions understandable and in sufficient detail? Yes ___ No ___
Comment _____
Are the Sense Switch options adequately described (if applicable)? Yes ___ No ___
Are the mnemonic labels identified or sufficiently understandable? Yes ___ No ___
Comment _____
5. Does the source program compile satisfactorily (if applicable)? Yes ___ No ___
Comment _____
6. Does the object program run satisfactorily? Yes ___ No ___
Comment _____
7. Number of test cases run _____. Are any restrictions as to data, size, range, etc. covered adequately in description? Yes ___ No ___
Comment _____
8. Does the Program meet the minimal standards of COMMON? Yes ___ No ___
Comment _____
9. Were all necessary parts of the program received? Yes ___ No ___
Comment _____
10. Please list on the back any suggestions to improve the usefulness of the program. These will be passed onto the author for his consideration.

Please return to:

Mr. Richard L. Pratt
Data Corporation
7500 Old Xenia Pike
Dayton, Ohio 45432

Your Name _____
Company _____
Address _____
Users Group Code _____

THIS REVIEW FORM IS PART OF THE COMMON ORGANIZATION'S PROGRAM REVIEW AND EVALUATION PROCEDURE. NONMEMBERS ARE CORDIALLY INVITED TO PARTICIPATE IN THIS EVALUATION.



FIVE-CARD PRINTER CORE DUMP PROGRAMS

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James S. Taylor
Data Corporation
7500 Old Xenia Pike
Dayton, Ohio 45432
513-426-3111
User No. 3121

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4 April 1966

Modifications or revisions to this program, as they occur, will be announced in the appropriate Catalog of Programs for IBM Data Processing Systems. When such an announcement occurs, users should order a complete new program from the Program Information Department.

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PROGRAM ABSTRACT

1. Title: Five-Card Printer Core Dump Programs
2. Author; Organization: James S. Taylor
Data Corporation
7500 Old Xenia Pike
Dayton, Ohio 45432
- Date: 4 April 1966
- Users Group Membership Code: 3121
3. Direct Inquiries to: James S. Taylor
Data Corporation
7500 Old Xenia Pike
Dayton, Ohio 45432
- Phone: 513-426-3111
4. Description/Purpose: These programs dump the memory of any size model I or II 1620 on the 1443 printer. Three initial unformatted lines display 120 positions beginning at 00080, 00200 and 00300. Subsequent lines are formatted as follows: Starting address, asterisk, ten groups of ten digits each followed by an asterisk, and asterisks to fill the rest of a 120 character line. On machines having 144 print positions positions 121-144 always display the same data. Only positions 00000-00079 are destroyed by the program. The program stops on a MAR check when the end of core is reached.
5. Method: Not applicable
6. Restriction/Range: Not applicable
7. Specifications:
 - a. Storage used by program: 0-399
 - b. Equipment required by program: Card
1443 Printer
 - Can program be used on lesser machine? No
 - c. Programmed in: Machine Language

d. Type of Program:

Mainline, Complete

8. Additional Remarks:

The program is given in two forms. One is for machine without indirect addressing or for Model II 1620's when it is not known whether IA is on or off. The other requires IA. Index registers do not affect the program. The use of IA allows the flag on the first digit of the output line to be cleared, providing a more easily interpreted output.

NOTICES

1. Modifications or revisions to this program, as they occur, will be announced in the appropriate Catalog of Programs for IBM Data Processing Systems. When such an announcement occurs, users should order a complete new program from the Program Information Department.
2. This program has been tested by the author on three different 1620 systems, and has been found to operate properly, without interference with or from 1710 or model II special features. However, neither the author nor Data Corporation will assume any liability whatever with respect to the operation of this program on any 1620 or 1710 computer, nor for any time or materials lost due to failure of the program to operate as described.

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WRITEUP

The program as delivered consists of four decks. Two are listing decks and two are object decks. The listings describe the logic and instruction-by-instruction operation of the program. Included in the listing decks at appropriate places are the five cards which actually constitute the dump program, so that an object program can be prepared directly from the listings, if desired.

The program operates by moving digits one at a time from the location to be dumped to the buffer area 00000-00119. Although the lengths of all fields used as addresses must be made 5 digits to avoid trouble on Model II 1620's when index registers are on, the program will keep up with a Model II printer on a Model I computer.

The dump destroys locations 00000 through 00079 when it is loaded. Any data in these locations is irretrievably lost unless it is dumped at the typewriter beforehand. To restart a job after a dump it is only necessary to restore 00000 to 00079, load in the multiplication tables, and enter a branch from the console.

To operate the program, clear the reader, press reset (or instant stop and reset, if necessary), put the five-card dump routine in the reader, and press load. The program takes a couple of seconds to load, so hold the reader start button down until all five cards have been read. If it is desired to dump 00012-00079 before loading the dump program, press insert, type 35 00012 00100, and R-S or press release and start. After the first line is typed, press release and reset and load the dump program.

The output consists of three lines of dumped output, followed by a double spaced, formatted listing of the contents of the memory. The first digit of the first line is from core location 00080. The second line begins at 00200, and the third at 00300. Subsequent lines are labeled with the appropriate starting address. The program stops with a MAR check when it addresses the first digit beyond the end of core. On 100K machines it will loop and begin dumping from 00000, but will not clobber itself.

DECK LABELING KEY

Deck No. 1 consists of 61 cards as listed on page 6. Deck No. 2 is a five-card dump program for machines without indirect addressing. The cards of this deck are included and described in deck No. 1, and appear within the listing on page 6. Similarly, deck No. 3 is a listing deck and deck No. 4 is an object deck for the dump program for machines with indirect addressing. These are listed in a self-explanatory form on page 8.

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