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TECHNICAL MEMORANDUM

(TM Series)

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SCF Computer Program Systems Manual

SYSTEM

Utility Programs

DEVELOPMENT

Symbolic Dump Routine (SYMDUMP)

CORPORATION

by

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Approved

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CALIFORNIA

21 March 1963

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SUBROUTINE IDENTIFICATION

- A. Title: Symbolic Dump Routine (SYMDUMP)
- B. Programmed and Documented: 14 July 1962
F. J. LaChapelle, System Development Corporation
- C. Revised: 14 February 1963, Documented: 21 March 1963,
R. L. Kinkead, System Development Corporation

PURPOSE

To provide octal, symbolic, floating point decimal, or BCD dumps of COP routines using their names to define the areas in core to be dumped.

USAGE

A. Calling Sequence

L	RTJ	SYMDUMP
L+1	Normal Return	
	ZRO	N
L+2	BCD	1XXXXXXXX
L+3	DEC	T
L+4	BCD	1PROG1
L+5	BCD	1PROG2
.	.	.
.	.	.
.	.	.
L+K	BCD	1PROG(LAST)

Where:

N = The total number of parameters

T = The logical tape or printer to write dump on ($2 \leq T \leq 13$).

PROG1 ... PROG(LAST) = The names of the specific routines to dump, (left adjusted with training blanks).

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B. The Parameter XXXXXXXX is optional and if it is present, the result will be that the routines will be dumped in the specified format. The possible values of XXXXXXXX are:

1. SYMBOLIC - mnemonic format,
2. FLOATDEC - floating point decimal format, and
3. BCD - BCD format.

If absent, the dump will be in octal.

C. When called by a function card:

* SYMDUMP XXXXXXXX T PROG1 . . . PROG(LAST)

where all parameters are defined as above with XXXXXXXX again optional.

RESTRICTIONS

- A. SYMDUMP uses the TTTT table, LCOUNT, and L NAMES.
- B. SYMDUMP uses the subroutine CORE, (TM-(L)-705/022/01).
- C. A page eject follows the dump of each program and no end of file is written following a dump.
- D. A maximum of twenty routines may be dumped with one call to SYMDUMP.
- E. Only those routines defined previously by a DEFINES card or those routines which have been loaded by MTCII at execution time may be dumped by SYMDUMP.
- F. It is possible to call six selected areas of core by six special names. These areas and their mnemonics are: COMMON (06743₈ - 07106₈), POOL (04700₈ - 07106₈), COP (00000₈ - 07777₈ and 70000₈ -

7777₈), ZEROTEN (00000₈ - 00010₈), INOUT (00000₈ - 07777₈), and ALLCOP (00000₈ - 07777₈ and 70000₈ - 77777₈). Note that COP and ALLCOP are the same areas and consist of two separate parts. INOUT is everything below 10000₈ since the I/O routines and buffers are scattered throughout this area.

- G. If a routine is requested which is not a special name or has not been loaded or defined, a one-line record to this effect is written on the output tape. The normal dumping of the remaining routines then resumes.
- H. If an absolute program is requested, a dump beginning with the first cell of the program and extending through 76432₈ is made.
- I. If the logical tape is illegal, a normal return is made with no error message.
- J. Output is called into core by CORE using the ADDR0F feature in MTCII if FLOATDEC or BCD formats are selected.

TIMING

SYMDUMP takes a maximum of one minute to dump "32K" core.

STORAGE

233₈ cells total
121₈ cells are instructions cells.
15₈ cells for a table defining the special areas of core.
25₈ cells contain messages.
15₈ cells are constants.
33₈ cells are temporary storage

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(last page)

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REFERENCES

- A. "1604 Systems Manual", Lockheed Missiles and Space Division
LMSC - 44758, 1 January 1962, P. 50.12.01.

- B. "Utility Program Descriptions, Milestone 11, Symbolic Dump Routine
(SYMDUMP)", System Development Corporation, TM-(L)-715/019/01.

- C. Computer Program Library Catalog No. 75048.

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Santa Monica, California
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F. L. LaChapelle, R. L. Kinkead.
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Satellite Networks.

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Supersedes TM(L)-705/025/00. Reports
that the purpose of SYMLUMP (Symbolic
Dump Routine) is to provide octal,
symbolic, floating point decimal,
or BCD dumps of COP routines using
their names to define the areas in
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