PROGRAM NUMBER: **P00019**

PROGRAM NAME: **DUMP**

SUPPORT REQUIRED: **CTOS IN AN 8K MACHINE**

PURPOSE: **Dumps selected memory locations to the front tape in a catalogable and/or loadable form. All CTOS subroutines are left intact and hence may be dumped at will.**

REVISION NUMBER: **1.1**

OPERATING INSTRUCTIONS: **DUMP must be cataloged on a CTOS tape. It may be run by typing in either of the following:**
        1.) RUN DUMP
        2.) DEB
        nG where n is the file number of DUMP on the CTOS tape.

If the program to be dumped to tape requires modification before dumping, the second method must be need.

The following questions will be asked:

QUESTIONS	RESPONSES
Front Tape Scratch?	The user should depress the RUN key when he has loaded a scratch tape in the front deck and is ready to proceed.
Entry Point?	The user should type in the octal entry point of the program he is dumping to tape. This must be greater than or equal to 1000.
Enter Starting, Stopping Location?	The user should type in the octal starting and stopping locations of memory that are to be dumped (e.g. 1000, 3745). These must be greater than or equal to 1000 also. After the locations are dumped to tape DUMP will repeat this question so that more locations may be dumped. When all desired sections of memory have been dumped the user should respond with 'E' or 'END'.
DUMP or OS?	The response 'D' will restart the DUMP program and 'O' will return to the operating system.

Program Description: DUMP overlays the following sections of the operating system:

    1.) Bootblock Copy (13550 -12777)
    2.) DEBUG (16200 - 16777)
    3.) CATALOG (17400 - 17600)
    4.) SYMBOLIC LINKER (17600 - 17745)

Any other memory locations above 1000 can be dumped.

    DUMP uses the following sections of the CTOS.
    1.) tape Handling Routines (1400 - 16172)
    2.) KEYIN$ (17000 - 17150)
    3.) DSPLY$ (17151 - 17374)

Since DUMP uses the above routines KEYIN$ and DSPLY$ must be dumped separately rather than in one section. The tape handling routines must be dumped as follows:

    1.) ENTER STARTING, STOPPING LOCATION? 14000, 15077
    2.) ENTER STARTING, STOPPING LOCATION? 15100, 16172