INTRODUCTION

This is a small monitor program for the 6889 Color Computer, program silows you to do hex-sacii dumps of memory, examine and change memory, set break points in programs, examine and change registers, and tests memory. The program is very versitile at and cha

PUR POSE OF THIS PROGRAM

The purpose of this program is to aid in the debugging of machine quage programs and to better understand the internal workings of ...e Color Computer.

HOW TO GET STARTED

Load the program using the CLOADN command. Then type EXEC to start the program (you should get 'CMD7' as a prompt). The first command you should try is the 'H' command. For a detailed explaination of this command and other commands, see below. Note the program as it comes is designed for a lik machine, so for machines with less memory see the SPECIAL INSTRUCTION section for instructions on loading it into a lower address space.

CUMMANDS SPECIFICATIONS

The reference type format will be used with the command displayed first and its function following it. Now for a few fine details: 1) If you make a mistake while typing in a hex number of any kind, just type an invalid hex digit and the command will abort without further action. 2) The dash between two address commands is provided by the computer so you don't have to type it. 3) The 'A's in the syntax diagrams signify hex digits. 4) Brackets surrounding an item indicate that the item is optional. Don't type the brackets in.

SET BREAKPOINTS - Puts a software interrupt in place of the opcode at the address specified. When the software interrupt is executed by the 6889 processor, processing stops, the register values are shown, and the command prompt is given. It is useful to break at the beginning of an instruction to follow the execution flow of a program.

EXAMINE MEMORY - Displays in both hex and ASCII any portion of memory.

GO ADDRESS - Starts execution of a machine language e program at the address specified. If no address is specified, the address specified by the program counter register on the stack is used.

MELP - Lists all of the commands and a brief discription

IAAAA1

MEMORY EXAMINE-CHANGE - Used to alter things in memory and view values in memory a little at a time. If an address is specified, the examining starts at that address. If no address is specified, examining starts with the address last viewed by a previous 'M' command (or at location # if the 'M' command has not been used before). To scan forwards in memory, hit any key except (up arrow), (enter), or hex numbers (#123456789ABCDEF). To scan beckwards, use the (up arrow) key. To change the currently displayed memory location, just type two hex numbers. If a question mais appears after the two typed in characters, the memory value was not changed due to the location not being in RAM. To return to the command prompt hit (enter).

0

QUESTION MEMORY - Tests memory between the addresses specified. This will test over this monitor program and destroy it if it is asked to, so be careful.

REGISTER EXAMINE-CHANGE - Displays all of the registers and their contents if the 'R' is followed by center>. Bowever, if it is followed by one of the following letters (C,A,B,D,X,Y,U,P), that register is displayed and you can change its value by typing in a hex value. The definitions of the registers are:

C = condition codes
A = A register
B = B register
D = D register X - X register Y - Y register U - U register U AAAA U

UNDO BREAKPOINTS - Clear breakpoints at the specified

SPECIAL INSTRUCTIONS

To load CE Monitor on a 16k machine you have to add an offset to the CLOADR command (then just use EEEC to run):

CLOADH "CENCH" . L HC 888

To make a copy of this program after loading it into 16k you:

CBAVER "CRACH", 6 H3888, 6 H3DD1, 6 H3888

the 16k beckup copy dows NOT need the offset to be reloaded (CLOADM will do).

To make a copy of this program after loading it into 32k your CSAVEM "CENCM", 687885, 687DD1, 687888

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