



DECUS

PROGRAM LIBRARY

DECUS NO.	8-349
TITLE	OCTAL DEBUGGING TECHNIQUE WITH VIEW
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SOURCE LANGUAGE	PAL-D

OCTAL DEBUGGING TECHNIQUE WITH VIEW

DECUS Program Library Write-up

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The display consists of a four digit field setting, a four digit address, and 20_8 four digit words displaying the contents of 20_8 consecutive locations starting with the contents of the current address.

The program is loaded with the binary loader into core locations 1000-1777 in field 0. It uses page zero locations 4 and 5 in field 0, and 4, 5 and 6 in field 1 to return from a breakpoint. The starting address is 1000.

All of the punch and word search routines (T, P, E, M, W) have been removed from ODT and routines to allow operations on both field 0 and field 1 have been added to make ODTV.

The program may be relocated to the beginning of any page in field 0 and occupies four consecutive pages. To relocate it change START on the ASCII tape to the new address and reassemble. The program cannot be loaded into field 1. The locations used on page zero may be moved to any place on page zero by changing ZPAT and reassembling (they cannot use the autoindex registers). The number of words displayed can be changed by setting location 1760 (NWORDS) to the negative of the number of words to be displayed. The size and spacing of the words can be changed by changing location 1762 (M40, the space between characters and lines) and 1737 (PSPACE, the space between points in the character).

ODTV COMMANDS

Command	Meaning
/	Reopen last named location; modify if desired.
nnnn/	Open location nnnn; modify if desired; set current address to nnnn.
:	Display next 20_8 words (adds 20_8 to current address).
Return	Close currently open location (typing another command also closes the currently open location).
Line feed	Close currently open location and open next sequential location.
I (Shift/N)	Close currently open location, take contents as MRI and open and type contents of referenced location.
— (Shift/O)	Close currently open location and open indirectly, i.e., the contents of the open location is to be taken as the location whose contents is to be typed and available for modification.
nnnnG	Transfer control to location nnnn.
B	Remove previously established breakpoint and restore breakpoint to original status.
nnnnB	Establish a breakpoint at location nnnn.
10F	Change to field 1; perform next commands on programs in field 1.
F	Change to field 0; perform next commands on programs in field 0.
A	Open location containing the contents of the accumulator. Must be operating in field 0 to perform this command.
Line feed	Open location containing the contents of the link. Must be operating in field 0 to perform this command.
C	Continue from a breakpoint, i. e., execution begins with the breakpoint instruction.
nnnnC	Continue from a breakpoint and iterate $nnnn_8$ times through the breakpoint.