PDP-8 SYMBOLIC EDITOR PROGRAMMER'S REFERENCE MANUAL

For additional copies, order No. DEC-08-ESAB-D from Program Library, Digital Equipment Corporation, Maynard, Mass.

Price: \$2.00

1st Printing May 1966
2nd Printing March 1967
3rd Printing (Rev) June 1967
4th Printing (Rev) November 1967
5th Printing February 1968
6th Printing July 1968
7th Printing January 1969
8th Printing August 1969
9th Printing March 1970

Your attention is invited to the last two pages of this manual. The Reader's Comments page, when filled in and returned, is beneficial to both you and DEC. All comments received are considered when documenting subsequent manuals, and when assistance is required, a knowledgeable DEC representative will contact you. The Software Information page offers you a means of keeping up-to-date with DEC's software.

Copyright © 1966, 1967, 1968, 1969, 1970 by Digital Equipment Corporation

The material in this manual is for information purposes and is subject to change without notice.

The following are trademarks of Digital Equipment Corporation, Maynard, Massachusetts:

DEC FLIP CHIP PDP FOCAL

DIGITAL

COMPUTER LAB

CONTENTS

SECTION 1 OPERATING FEATURES

1.1	Modes of Operation	1-1
1.1.1	Transition Between Modes	1 – 1
1.2	Command Structure	1-1
1.3	Special Characters and Functions	1-2
1.3.1	Carriage Return (≩nonprinting)	1-2
1.3.2	Back-Arrow (ERASE (CTRL/U nonprinting)	1-2
1.3.3	Rubout (∖)	1-3
1.3.4	Form Feed (CTRL/FORM nonprinting)	1-3
1.3.5	Period (.)	1-4
1.3.6	Slash (/)	1-4
1.3.7	Line Feed (♦ nonprinting)	1-4
1.3.8	ALT Mode (ALT nonprinting)	1-4
1.3.9	Left Angle Bracket (>)	1-5
1.3.10	Equal Sign (=)	1-5
1.3.11	Colon (:)	1-5
1.3.12	Blank Tape and Leader/Trailer	1-5
1.3.13	Tabulation (──► nonprinting)	1-5
1.4	Switch Register Options	1-6
	SECTION 2	
	COMMAND REPERTOIRE	
2.1	Input Commands	2-1
2.2	Output Commands	2-2
2.2.1	List Commands	2-2
2.2.2	Punch Commands	2-3
2.3	Editing Commands	2-4

CONTENTS (cont.)

SECTION 3 OPERATING PROCEDURE

3.1	Loading Sequence	3-1
3.1.1	Loading the Binary Loader	3-1
3.1.2	Loading the Symbolic Editor with the Binary Loader	3–2
3.1.3	Loading a Symbolic Tape Using the Editor	3–2
3.2	Editing a Symbolic Tape	3–2
3.2.1	Error Messages	3-3
3.3	Punching the Corrected Symbolic Tape	3-3
3.4	Example of Use	3–4
	APPENDIX A SUMMARY OF SYMBOLIC EDITOR OPERATIONS	;
A1	Special Key Functions	A1-1
A2	Switch Options	A1-2
A3	Command Summary	A1-2
A4	References	A1-3
	ILLUSTRATIONS	
3-1	Program Listing of Addition Routine	3–4

INTRODUCTION

The PDP-8 Symbolic Editor allows the user to prepare and edit symbolic tapes on-line in ASCII code with the Teletype and/or high-speed reader/punch. The tedious task of correcting symbolic program tapes using the Teletype off-line is thereby avoided. Proper use of the PDP-8 Symbolic Editor can substantially ease the labor and reduce the number of passes necessary to correct symbolic program tapes.

The Editor reads a page, or section, of symbolic tape into a buffer in core storage, where it is available for examination and correction. The page buffer occupies all of core not taken up by the Editor itself and has a capacity of approximately 5000_{10} characters. When the Editor has finished reading a page into the buffer, a bell rings to signal the user that he may begin editing. The user may then call for a listing of individual (numbered) lines, in any order, and insert desired changes and corrections. In addition, text may be added to the buffer, or inserted between specified lines. Groups of lines or individual lines may be moved or deleted by a single command, or the entire page may be erased if desired. Upon command, the Editor will then either list or punch out the corrected lines or page on paper tape. The Editor can also be used to generate a new symbolic tape by typing new text directly on the console keyboard.