


```

1 0001 0 %TITLE 'EDT$HELP - process the HELP commands'
2 0002 0 MODULE EDT$HELP ( ! Process the HELP commands
3 0003 0 IDENT = 'V04-000' ! File: HELP.B32 Edit: JBS2015
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 Process the HELP commands.
37 0037 1
38 0038 1 ENVIRONMENT: VAX/VMS only
39 0039 1
40 0040 1 AUTHOR: Bob Kushlis, CREATION DATE: 13-OCT-1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 2-005 - Regularized headers and made PIC. JBS 24-Feb-1981
45 0045 1 2-006 - Fix module name. JBS 05-Mar-1981
46 0046 1 2-007 - Use new message codes. JBS 04-Aug-1981
47 0047 1 2-008 - Add new message for no help on a key. SMB 19-Nov-1981
48 0048 1 2-009 - Add new global for help file name and default. SMB 17-Dec-1981
49 0049 1 2-010 - Print a message on close errors. JBS 12-Apr-1982
50 0050 1 2-011 - Return a value from setting the help file name. JBS 04-May-1982
51 0051 1 2-012 - Change default processing for SET HELP. SMB 25-May-1982
52 0052 1 2-013 - Maximum terminal width for the librarian is 132. JBS 18-Aug-1982
53 0053 1 2-014 - Add some code for OUTPUT_HELP but comment it out until VMS
54 0054 1 gives more support (.i.e. SET HELP command, more parameters...). SMB 01-Mar-1983
55 0055 1 2-015 - Improve the appearance of the listing. JBS 14-Jun-1983
56 0056 1 --
57 0057 1

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59 0058 1 %SBTTL 'Declarations'
60 0059 1
61 0060 1 : TABLE OF CONTENTS:
62 0061 1 :
63 0062 1
64 0063 1 REQUIRE 'EDTSRC:TRAROUNAM';
65 0502 1
66 0503 1 FORWARD ROUTINE
67 0504 1     EDT$$OUT_HLP : NOVALUE,
68 0505 1     GET_HELP;
69 0506 1     EDT$$SET_HLPFNAM;
70 0507 1
71 0508 1 :
72 0509 1 : INCLUDE FILES:
73 0510 1 :
74 0511 1
75 0512 1 REQUIRE 'EDTSRC:EDTREQ';
76 0647 1
77 0648 1 REQUIRE 'EDTSRC:SYSSYM';
78 0678 1
79 0679 1 :
80 0680 1 : MACROS:
81 0681 1 :
82 0682 1 :     NONE
83 0683 1 :
84 0684 1 : EQUATED SYMBOLS:
85 0685 1 :
86 0686 1 :     NONE
87 0687 1 :
88 0688 1 : OWN STORAGE:
89 0689 1 :
90 0690 1
91 0691 1 OWN
92 0692 1     KEY_COUNT,
93 0693 1     LINE_HELP;
94 0694 1
95 0695 1
96 0696 1 :
97 0697 1 : EXTERNAL REFERENCES:
98 0698 1 :
99 0699 1
100 0700 1 EXTERNAL ROUTINE
101 0701 1     EDT$$FIOPN_ERR,
102 0702 1     EDT$$CNV_UPC,
103 0703 1     EDT$$OUT_FMTBUF,
104 0704 1     EDT$$FMT_STR,
105 0705 1     EDT$$FMT_LIT,
106 0706 1     EDT$$FMT_CRLF,
107 0707 1     EDT$$FMT_MSG,
108 0708 1     EDT$$MSG_TOSTR,
109 0709 1     LBR$INI_CONTROL,
110 0710 1     LBR$OPEN,
111 0711 1     LIB$GET_INPUT,
112 0712 1     LIB$PUT_OUTPUT,
113 0713 1     LBR$OUTPUT_HELP,
114 0714 1     LBR$GET_HELP,
115 0715 1     LBR$CLOSE;

```

! Print help using LBR\$GET_HELP

! Count of the key number we're on
! 1= use line mode help format

! 0= use keypad mode help format

```
: 116 0716 1  
: 117 0717 1 EXTERNAL  
: 118 0718 1 EDT$SZ_LBR_INDEX, : LBR control table index.  
: 119 0719 1 EDT$ST_HDEF_NAM, : Help file default specs  
: 120 0720 1 EDT$ST_HDEF_FILE, : Help file default file name  
: 121 0721 1 EDT$ST_HELP_NAM,  
: 122 0722 1 EDT$SG_HELP_NAMLEN,  
: 123 0723 1 EDT$SG_HELP_SET,  
: 124 0724 1 EDT$SA_FMT_CUR,  
: 125 0725 1 EDT$ST_FMT_BUF,  
: 126 0726 1 EDT$SG_TI_QID;  
: 127 0727 1  
: 128 0728 1 MESSAGES ((NOHLPVL, HLPFILCLO, FILNAM, NOKEYHLP, NOHLPINI, INVSTR));
```

```

130 0729 1 %SBTTL 'EDT$$OUT_HLP - HELP command'
131 0730 1
132 0731 1 GLOBAL ROUTINE EDT$$OUT_HLP (
133 0732 1     STRING,
134 0733 1     LENG,
135 0734 1     ADDITIONAL
136 0735 1     ) : NOVALUE =
137 0736 1
138 0737 1 !++
139 0738 1 ! FUNCTIONAL DESCRIPTION:
140 0739 1
141 0740 1     Process the HELP commands.
142 0741 1
143 0742 1 ! FORMAL PARAMETERS:
144 0743 1
145 0744 1     STRING           Address of the text string that contains the HELP arguments
146 0745 1
147 0746 1     LENG             Length of that string
148 0747 1
149 0748 1     ADDITIONAL       * = print key names and additional help
150 0749 1
151 0750 1 ! IMPLICIT INPUTS:
152 0751 1
153 0752 1     EDT$$G_HELP_SET
154 0753 1
155 0754 1 ! IMPLICIT OUTPUTS:
156 0755 1
157 0756 1     NONE
158 0757 1
159 0758 1 ! ROUTINE VALUE:
160 0759 1
161 0760 1     NONE
162 0761 1
163 0762 1 ! SIDE EFFECTS:
164 0763 1
165 0764 1     Calls EDT$$SET_HLPFNAM if it has not already been called.
166 0765 1
167 0766 1 !--
168 0767 1
169 0768 2 BEGIN
170 0769 2
171 0770 2 LOCAL
172 0771 2     HELP_DESC : BLOCK [8, BYTE]           ! String descriptor for help file name
173 0772 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
174 0773 2             [DSC$B_CLASS] = DSC$K_CLASS_S),
175 0774 2     LINE_DESC : BLOCK [8, BYTE]           ! Output string descriptor for LBR$OUTPUT_HELP
176 0775 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
177 0776 2             [DSC$B_CLASS] = DSC$K_CLASS_S),
178 0777 2     HELP_FLAGS,
179 0778 2     OPEN_STATUS,
180 0779 2     LENGTH_POINTER,
181 0780 2     POINTER,
182 0781 2     E_POINT,
183 0782 2     TOPICS : BLOCKVECTOR [5, 8, BYTE],    ! Topic descriptors.
184 0783 2     GET_HELP_ARGS : VECTOR [10],
185 0784 2     NUM_TOPICS,
186 0785 2     GET_HELP_STATUS;

```

```
187 0786 2
188 0787 2
189 0788 2 + If we are using line mode help format then we want additional information
190 0789 2 to be printed. If we are using keypad help format then we don't want the
191 0790 2 additional topics to be displayed.
192 0791 2
193 0792 2 LINE_HELP = .ADDITIONAL;
194 0793 2
195 0794 2 + The following will have code to be used for LBR$OUTPUT_HELP turned off by
196 0795 2 use of comments until VMS implements the SET HELP/PROMPT command.
197 0796 2
198 0797 2 IF (.LINE_HELP EQL 0)
199 0798 2 THEN
200 0799 2 BEGIN
201 0800 2
202 0801 2 + We cannot use LBR$OUTPUT_HELP so we must initialize the file, open it
203 0802 2 and parse the help topics to prepare them for LBR$GET_HELP.
204 0803 2
205 0804 2 +
206 0805 2 If EDT$$G_HELP SET then the help file has already been opened, so
207 0806 2 set OPEN_STATUS
208 0807 2
209 0808 2
210 0809 2 IF ( NOT .EDT$$G_HELP_SET)
211 0810 2 THEN
212 0811 2 OPEN_STATUS = EDT$$SET_HLPFNAM (CH$PTR (EDT$$T_HELP_NAM),
213 0812 2 .EDT$$G_HELP_NAMLEN)
214 0813 2
215 0814 2 ELSE
216 0815 2 OPEN_STATUS = 1;
217 0816 2
218 0817 2 IF (.OPEN_STATUS)
219 0818 2 THEN
220 0819 2 BEGIN
221 0820 2 + Isolate all the topic strings in the command.
222 0821 2
223 0822 2 POINTER = .STRING;
224 0823 2 E_POINT = CH$PTR (.POINTER, .LENG);
225 0824 2 EDT$$CNV_UPC (.POINTER, .LENG);
226 0825 2
227 0826 2 INCR I FROM 0 TO 4 DO
228 0827 2 BEGIN
229 0828 2 TOPICS [.I, DSC$W_LENGTH] = 0;
230 0829 2 TOPICS [.I, DSC$B_DTYPE] = DSC$K_DTYPE_T;
231 0830 2 TOPICS [.I, DSC$B_CLASS] = DSC$K_CLASS_S;
232 0831 2 TOPICS [.I, DSC$A_POINTER] = 0;
233 0832 2 END;
234 0833 2
235 0834 2 INCR I FROM 0 TO 4 DO
236 0835 2 BEGIN
237 0836 2
238 0837 2 WHILE ((CH$DIFF (.POINTER, .E_POINT) LSS 0) AND !
239 0838 2 (CH$RCHAR (.POINTER) EQL %C' ') OR !
240 0839 2 (CH$RCHAR (.POINTER) EQL ASC_K_TAB)) DO
241 0840 2 POINTER = CH$PLUS (.POINTER, 1);
242 0841 2
243 0842 2 IF CH$DIFF (.POINTER, .E_POINT) EQL 0
```

```
244 0843 4 THEN
245 0844 5 BEGIN
246 0845 5 NUM TOPICS = .1;
247 0846 5 EXITLOOP;
248 0847 4 END;
249 0848 4
250 0849 4 TOPICS [.1, DSC$A_POINTER] = .POINTER;
251 0850 4
252 0851 4 IF (CH$RCHAR (.POINTER) EQL %C'/') THEN POINTER = CH$PLUS (.POINTER, 1);
253 0852 4
254 0853 5 WHILE ((CH$DIFF (.POINTER, .E POINT) LSS 0) AND !
255 0854 5 (CH$RCHAR (.POINTER) NEQ %C' ') AND !
256 0855 5 (CH$RCHAR (.POINTER) NEQ ASC K TAB) AND !
257 0856 4 (CH$RCHAR (.POINTER) NEQ %C'7') DO
258 0857 4 POINTER = CH$PLUS (.POINTER, 1);
259 0858 4
260 0859 4 TOPICS [.1, DSC$W_LENGTH] = CH$DIFF (.POINTER, .TOPICS [.1, DSC$A_POINTER]);
261 0860 4 END;
262 0861 3
263 0862 3 !+
264 0863 3 ! If no topics are found, then default to help.
265 0864 3 !-
266 0865 3
267 0866 4 IF (.NUM_TOPICS EQL 0)
268 0867 3 THEN
269 0868 4 BEGIN
270 0869 4 NUM TOPICS = 1;
271 0870 4 TOPICS [0, DSC$W_LENGTH] = 4;
272 0871 4 TOPICS [0, DSC$A_POINTER] = UPLIT BYTE('HELP');
273 0872 3 END;
274 0873 3
275 0874 3 !+
276 0875 3 ! Now, ask for help!
277 0876 3 !-
278 0877 3
279 0878 3 KEY_COUNT = 0;
280 0879 3 GET_HELP_STATUS = LBR$GET_HELP (EDT$$Z_LBR_INDEX, %REF (MIN (132, .EDT$$G_TI_WID)), GET_HELP,
281 0880 3 _LINE_HELP, TOPICS [0, 0, 0, 0, 0], TOPICS [1, 0, 0, 0, 0], TOPICS [2, 0, 0, 0, 0], -!
282 0881 3 TOPICS [3, 0, 0, 0, 0], TOPICS [4, 0, 0, 0, 0]);
283 0882 3
284 0883 3 IF ( NOT .GET_HELP_STATUS) THEN SIGNAL_STOP (.GET_HELP_STATUS);
285 0884 3
286 0885 3 !+
287 0886 3 ! And output any remaining characters.
288 0887 3 !-
289 0888 3
290 0889 3 IF (.FDT$$A_FMT_CUR NEQA EDT$$T_FMT_BUF) THEN EDT$$OUT_FMTBUF ();
291 0890 2 END;
292 0891 2
293 0892 2 !+
294 0893 2 ! Code specific to the use of LBR$OUTPUT_HELP. WE don't have to parse
295 0894 2 ! the help line in this case so we skip the above code. Note also that
296 0895 2 ! LBR$OUTPUT_HELP does its own initialization and opening of the help
297 0896 2 ! file.
298 0897 2 !-
299 0898 2 END
300 0899 2 ELSE
```



```

301 0900 2 | BEGIN
302 0901 2 | HELP_FLAGS = HLP$M_PROCESS + HLP$M_GROUP + HLP$M_SYSTEM; ! Use HLP$M_PROMPT for ?[Sub]Topic promptin
303 0902 2 | HELP_DESC [DSC$W_LENGTH] = .EDT$$G_HELP_NAMLEN;
304 0903 2 | HELP_DESC [DSC$A_POINTER] = (CH$PTR(EDT$$T_HELP_NAM));
305 0904 2 | POINTER = .STRING;
306 0905 2 | LINE_DESC [DSC$A_POINTER] = .POINTER;
307 0906 2 | LINE_DESC [DSC$W_LENGTH] = .LENG;
308 0907 2 |
309 0908 2 | For the call to LBR$OUTPUT_HELP we may want to use our own output routine
310 0909 2 | in place of LIB$PUT_OUTPUT, although this seems to be adequate when tested.
311 0910 2 |
312 0911 2 | If the prompting bit is on, then we must supply our own input routine in place
313 0912 2 | of LIB$GET_INPUT because prompt responses may be coming from a journal or
314 0913 2 | initialization file. We cannot turn this bit on until VMS provides a SET
315 0914 2 | HELP/[NO]PROMPT command for compatibility reasons.
316 0915 2 |
317 0916 2 | Without HLP$M_PROMPT set, the only thing we buy with this code is the ability
318 0917 2 | to say 'HELP @newhelpfile command'. Without resorting to LBR$OUTPUT_HELP you
319 0918 2 | could get help from another help file by simply typing 'SET HELP newhelpfile
320 0919 2 | and then 'HELP command'. When you want to set help back to the default
321 0920 2 | help file you simply type 'SET HELP'.
322 0921 2 |
323 0922 2 |
324 0923 2 | GET_HELP_STATUS = LBR$OUTPUT_HELP (LIB$PUT_OUTPUT, %REF ((MIN (132, .EDT$$G_TI_WID))), LINE_DESC, ME
325 0924 2 | HELP_FLAGS, LIB$GET_INPUT);
326 0925 2 |
327 0926 2 | IF ( NOT .GET_HELP_STATUS) THEN SIGNAL_STOP (.GET_HELP_STATUS);
328 0927 2 |
329 0928 2 |
330 0929 2 | IF (.EDT$$A_FMT_CUR NEQA EDT$$T_FMT_BUF) THEN EDT$$OUT_FMTBUF ();
331 0930 2 |
332 0931 2 | END;
333 0932 1 | END;

```

! of routine EDT\$\$OUT_HLP

```

.TITLE EDT$HELP EDT$HELP - process the HELP commands
.IDENT \V04-000\

```

```

.PSECT _EDT$DATA,NOEXE, PIC,2

```

```

00000 KEY_COUNT:
.BLKB 4
00004 LINE_HELP:
.BLKB 4

```

```

.PSECT _EDT$CODE,NOWRT, SHR, PIC,2

```

```

50 4C 45 48 00000 P.AAA: .ASCII \HELP\

```

```

.EXTRN EDT$$FIOPN_ERR, EDT$$CNV_UPC
.EXTRN EDT$$OUT_FMTBUF
.EXTRN EDT$$FMT_STR, EDT$$FMT_LIT
.EXTRN EDT$$FMT_CRLF, EDT$$FMT_MSG
.EXTRN EDT$$MSG_TOSTR, LBR$INI_CONTROL
.EXTRN LBR$OPEN, LIB$GET_INPUT
.EXTRN LIB$PUT_OUTPUT, LBR$OUTPUT_HELP
.EXTRN LBR$GET_HELP, LBR$CLOSE

```

					.EXTRN	EDT\$\$Z_LBR_INDEX			
					.EXTRN	EDT\$\$T_HDEF_NAM			
					.EXTRN	EDT\$\$T_HDEF_FILE			
					.EXTRN	EDT\$\$T_HELP_NAM			
					.EXTRN	EDT\$\$G_HELP_NAMLEN			
					.EXTRN	EDT\$\$G_HELP_SET			
					.EXTRN	EDT\$\$A_FMT_CUR, EDT\$\$T_FMT_BUF			
					.EXTRN	EDT\$\$G_TI_QID, EDT\$ NORLPAVL			
					.EXTRN	EDT\$ HCPFILCLO, EDT\$ FILNAM			
					.EXTRN	EDT\$_NOKEYHLP, EDT\$_NOHLPINI			
					.EXTRN	EDT\$_INVSTR			
					.ENTRY	EDT\$\$OUT_HLP, Save R2,R3,R4		0731	
	54	00000000'	EF	9E	00002	MOVAB	LINE_HELP, R4		
	5E	9C	AE	9E	00009	MOVAB	-100(SP), SP		
5C	AE	010E0000	8F	D0	0000D	MOVL	#17694720, HELP_DESC	0773	
		60	AE	D4	00015	CLRL	HELP_DESC+4		
54	AE	010E0000	8F	D0	00018	MOVL	#17694720, LINE_DESC	0776	
		58	AE	D4	00020	CLRL	LINE_DESC+4		
64		0C	AC	D0	00023	MOVL	ADDITIONAL, LINE_HELP	0792	
13		00000000G	00	E8	00027	BLBS	EDT\$\$G_HELP_SET, 1\$	0809	
		00000000G	00	DD	0002E	PUSHL	EDT\$\$G_HELP_NAMLEN	0812	
		00000000G	00	9F	00034	PUSHAB	EDT\$\$T_HELP_NAM	0811	
0000V	CF		02	FB	0003A	CALLS	#2, EDT\$\$SET_HLPFNAM		
			03	11	0003F	BRB	2\$		
50			01	D0	00041	MOVL	#1, OPEN STATUS	0814	
01			50	E8	00044	BLBS	OPEN_STATUS, 3\$	0816	
				04	00047	RET			
52	04		AC	D0	00048	MOVL	STRING, POINTER	0822	
53	52	08	AC	C1	0004C	ADDL3	LENG, POINTER, E_POINT	0823	
		08	AC	DD	00051	PUSHL	LENG	0824	
				52	DD	PUSHL	POINTER		
00000000G	00		02	FB	00056	CALLS	#2, EDT\$\$CNV_UPC		
			50	D4	0005D	CLRL	1	0826	
			2C	AE40	7F	0005F	PUSHAQ	TOPICS[1]	0828
				9E	B4	00063	CLRW	@(SP)+	
			2E	AE40	7F	00065	PUSHAQ	TOPICS+2[1]	0829
9E			0E	90	00069	MOVB	#14, @(SP)+		
			2F	AE40	7F	0006C	PUSHAQ	TOPICS+3[1]	0830
9E			01	90	00070	MOVB	#1, @(SP)+		
			30	AE40	7F	00073	PUSHAQ	TOPICS+4[1]	0831
				9E	D4	00077	CLRL	@(SP)+	
E2	50		04	F3	00079	AOBLEQ	#4, 1, 4\$	0826	
			50	D4	0007D	CLRL	1	0837	
53			52	D1	0007F	CMPL	POINTER, E_POINT		
			05	18	00082	BGEQ	6\$		
20			62	91	00084	CMPB	(POINTER), #32	0838	
			05	13	00087	BEQL	7\$		
09			62	91	00089	CMPB	(POINTER), #9	0839	
			04	12	0008C	BNEQ	8\$		
			52	D6	0008E	INCL	POINTER	0840	
			ED	11	00090	BRB	5\$		
53			52	D1	00092	CMPL	POINTER, E_POINT	0842	
			05	12	00095	BNEQ	9\$		
51			50	D0	00097	MOVL	1, NUM_TOPICS	0845	
				32	11	0009A	BRB	13\$	
	30	AE40	7F	0009C	9\$:	PUSHAQ	TOPICS+4[1]	0849	

9E	52	D0	000A0	MOVL	POINTER, @(SP)+			
2F	62	91	000A3	CMPB	(POINTER), #47	0851		
	02	12	000A6	BNEQ	11\$			
	52	D6	000A8	10\$: INCL	POINTER			
53	52	D1	000AA	11\$: CMPL	POINTER, E_POINT	0853		
	0F	18	000AD	BGEQ	12\$			
20	62	91	000AF	CMPB	(POINTER), #32	0854		
	0A	13	000B2	BEQL	12\$			
09	62	91	000B4	CMPB	(POINTER), #9	0855		
	05	13	000B7	BEQL	12\$			
2F	62	91	000B9	CMPB	(POINTER), #47	0856		
	EA	12	000BC	BNEQ	10\$			
	2C	AE40	7F	000BE	12\$: PUSHAB	TOPICS[I]	0859	
	34	AE40	7F	000C2	PUSHAB	TOPICS+4[I]		
9E	52	9E	A3	000C6	SUBW3	@(SP)+, POINTER, @(SP)+		
B1	50	04	F3	000CA	AOBLEQ	#4, 1, 5\$	0834	
		51	D5	000CE	13\$: TSTL	NUM_TOPICS	0866	
		0D	12	000D0	BNEQ	14\$		
	51	01	D0	000D2	MOVL	#1, NUM_TOPICS	0869	
2C	AE	04	B0	000D5	MOVW	#4, TOPICS	0870	
30	AE	CF	9E	000D9	MOVAB	P.AAA, TOPICS+4	0871	
		FC	A4	000DF	14\$: CLRL	KEY_COUNT	0877	
		4C	AE	9F	000E2	PUSHAB	TOPICS+32	0880
		48	AE	9F	000E5	PUSHAB	TOPICS+24	
		44	AE	9F	000E8	PUSHAB	TOPICS+16	0879
		40	AE	9F	000EB	PUSHAB	TOPICS+8	
		3C	AE	9F	000EE	PUSHAB	TOPICS	
		54	DD	000F1	PUSHL	R4	0878	
		0000V	CF	9F	000F3	PUSHAB	GET_HELP	
1C	AE	00000000G	00	D0	000F7	MOVL	EDT\$\$G_TI_WID, 28(SP)	
00000084	8F	1C	AE	D1	000FF	CMPL	28(SP), #T32	
			05	15	00107	BLEQ	15\$	
1C	AE	84	8F	9A	00109	MOVZBL	#132, 28(SP)	
		1C	AE	9F	0010E	15\$: PUSHAB	28(SP)	
00000000G	00	00000000G	00	9F	00111	PUSHAB	EDT\$\$Z_LBR_INDEX	
	09		09	FB	00117	CALLS	#9, LBR\$GET_HELP	0880
	09		50	E8	0011E	BLBS	GET_HELP_STATUS, 16\$	0882
			50	DD	00121	PUSHL	GET_HELP_STATUS	
00000000G	00		01	FB	00123	CALLS	#1, LIB\$STOP	
	50	00000000G	00	9E	0012A	16\$: MOVAB	EDT\$\$T_FMT_BUF, R0	0888
	50	00000000G	00	D1	00131	CMPL	EDT\$\$A_FMT_CUR, R0	
			07	13	00138	BEQL	17\$	
00000000G	00		00	FB	0013A	CALLS	#0, EDT\$\$OUT_FMTBUF	
			04	00141	17\$: RET		0932	

; Routine Size: 322 bytes, Routine Base: _EDT\$CODE + 0004

; 334 0933 1

```

336 0934 1 %SBTTL 'GET_HELP - output HELP text'
337 0935 1 ROUTINE GET_HELP (
338 0936 1     DESC,
339 0937 1     FLAGS,
340 0938 1     ADDITIONAL,
341 0939 1     CUR_KEY_LEVEL
342 0940 1 ) =
343 0941 1
344 0942 1 !+
345 0943 1 !+ FUNCTIONAL DESCRIPTION:
346 0944 1
347 0945 1     Output a line of help text. This routine is called from LBR$HELP.
348 0946 1
349 0947 1 FORMAL PARAMETERS:
350 0948 1
351 0949 1     DESC           The text to be output
352 0950 1
353 0951 1     FLAGS           Flag bits
354 0952 1
355 0953 1     ADDITIONAL      Data argument to LBR$HELP
356 0954 1
357 0955 1     CUR_KEY_LEVEL   Current key level
358 0956 1
359 0957 1 IMPLICIT INPUTS:
360 0958 1
361 0959 1     NONE
362 0960 1
363 0961 1 IMPLICIT OUTPUTS:
364 0962 1
365 0963 1     NONE
366 0964 1
367 0965 1 ROUTINE VALUE:
368 0966 1
369 0967 1     1
370 0968 1
371 0969 1 SIDE EFFECTS:
372 0970 1
373 0971 1     Calls EDT$$FMT_LIT and EDT$$FMT_CRLF .
374 0972 1
375 0973 1 !-
376 0974 1 !-
377 0975 1 BEGIN
378 0976 1
379 0977 1 MAP
380 0978 1     DESC : REF BLOCK [8, BYTE];
381 0979 1
382 0980 1 IF ((..ADDITIONAL NEQ 0) OR (..FLAGS EQL 0))
383 0981 1 THEN
384 0982 1     BEGIN
385 0983 1     EDT$$FMT_LIT (.DESC [DSC$A_POINTER], .DESC [DSC$W_LENGTH]);
386 0984 1     EDT$$FMT_CRLF ();
387 0985 1     END
388 0986 1 ELSE
389 0987 1
390 0988 1     IF (..FLAGS EQL HLP$M_NOHLPTXT)
391 0989 1     THEN
392 0990 1 !+

```

```

! Output HELP text
! The text to be output
! Flag bits
! Data argument to LBR$HELP
! Current key level

```

```

: 393 0991 2 ! So the message won't get printed twice
: 394 0992 2 !
: 395 0993 2
: 396 0994 2 IF (.KEY_COUNT EQL 0)
: 397 0995 2 THEN
: 398 0996 2 BEGIN
: 399 0997 2 EDT$$MSG_TOSTR (EDT$_NOKEYHLP);
: 400 0998 2 EDT$$FMT_CRLF ();
: 401 0999 2 KEY_COUNT = .KEY_COUNT + 1;
: 402 1000 2 END;
: 403 1001 2
: 404 1002 2 RETURN (1);
: 405 1003 2 END;
! of routine GET_HELP

```

		000C 00000 GET_HELP:				
	53	00000000'	EF 9E 00002	.WORD	Save R2,R3	0935
	52	00000000G	00 9E 00009	MOVAB	KEY_COUNT, R3	
		0C	BC D5 00010	MOVAB	EDT\$\$FMT_CRLF, R2	0980
		08	05 12 00013	TSTL	@ADDITIONAL	
			BC D5 00015	BNEQ	1\$	
			16 12 00018	TSTL	@FLAGS	
	50	04	AC D0 0001A	BNEQ	2\$	0983
	7E		60 3C 0001E	MOVL	DESC, R0	
		04	A0 DD 00021	MOVZWL	(R0), -(SP)	
	00000000G	00	02 FB 00024	PUSHL	4(R0)	
	62		00 FB 00028	CALLS	#2, EDT\$\$FMT_LIT	0984
			1C 11 0002E	CALLS	#0, EDT\$\$FMT_CRLF	0980
	01	08	BC D1 00030	BRB	3\$	0988
			16 12 00034	CMPL	@FLAGS, #1	
			63 D5 00036	BNEQ	3\$	
			12 12 00038	TSTL	KEY_COUNT	0994
	00000000G	00000000G	8F DD 0003A	BNEQ	3\$	
	00		01 FB 00040	PUSHL	#EDT\$_NOKEYHLP	0997
	62		00 FB 00047	CALLS	#1, EDT\$\$MSG_TOSTR	0998
			63 D6 0004A	CALLS	#0, EDT\$\$FMT_CRLF	0999
	50		01 D0 0004C	INCL	KEY_COUNT	1002
			04 0004F	MOVL	#1, R0	1003
				RET		

; Routine Size: 80 bytes, Routine Base: _EDT\$CODE + 0146

```

407 1004 1 %SBTTL 'EDT$$SET_HLPFNAM - set help library name'
408 1005 1
409 1006 1 GLOBAL ROUTINE EDT$$SET_HLPFNAM (           ! Set help library name
410 1007 1     ADDR,                               ! Address of new HELP library name
411 1008 1     LEN,                               ! Length of that name
412 1009 1     ) =
413 1010 1
414 1011 1 +-+
415 1012 1 | FUNCTIONAL DESCRIPTION:
416 1013 1 |
417 1014 1 |     Set the name of the help library. Attempt an open to force a
418 1015 1 |     parse of the name and return an error if no help available.
419 1016 1 |
420 1017 1 | FORMAL PARAMETERS:
421 1018 1 |
422 1019 1 |     ADDR                Address of new HELP library name
423 1020 1 |
424 1021 1 |     LEN                Length of that name
425 1022 1 |
426 1023 1 | IMPLICIT INPUTS:
427 1024 1 |
428 1025 1 |     EDT$$T_HELP_NAM
429 1026 1 |     EDT$$G_HELP_NAMLEN
430 1027 1 |     EDT$$G_HELP_SET
431 1028 1 |     EDT$$Z_LBR_INDEX
432 1029 1 |
433 1030 1 | IMPLICIT OUTPUTS:
434 1031 1 |
435 1032 1 |     EDT$$T_HELP_NAM
436 1033 1 |     EDT$$G_HELP_NAMLEN
437 1034 1 |     EDT$$G_HELP_SET
438 1035 1 |     EDT$$Z_LBR_INDEX
439 1036 1 |
440 1037 1 | ROUTINE VALUE:
441 1038 1 |
442 1039 1 |     1 = success
443 1040 1 |     0 = invalid string
444 1041 1 |
445 1042 1 | SIZE EFFECTS:
446 1043 1 |
447 1044 1 |     NONE
448 1045 1 |
449 1046 1 | --
450 1047 1 |
451 1048 2 | BEGIN
452 1049 2 |
453 1050 2 | LOCAL
454 1051 2 |     RESULT_LEN,           ! Length of resultant name
455 1052 2 |     PARSE_RNAM : BLOCK [NAM$C MAXRSS, BYTE], ! Help file name after OPEN
456 1053 2 |     HELP_DESC : BLOCK [8, BYTE]           ! Descriptor for help name
457 1054 2 |     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
458 1055 2 |             [DSC$B_CLASS] = DSC$K_CLASS_S)
459 1056 2 |     RESULT_DESC : BLOCK [8, BYTE]         ! Resultant help file name
460 1057 2 |     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
461 1058 2 |             [DSC$B_CLASS] = DSC$K_CLASS_S)
462 1059 2 |     HELP_DEFAULT_FILE_NAME_DESC : BLOCK [8, BYTE] ! Help default file name
463 1060 2 |     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,

```

```
464      [DSC$B_CLASS] = DSC$K_CLASS_S);
465
466      IF (.LEN GTR NAM$C_MAXRSS)
467      THEN
468      BEGIN
469      EDT$$FMT MSG (EDT$_INVSTR);
470      RETURN (0);          ! File name too long
471      END;
472
473      IF (.LEN NEQ 0)
474      THEN
475      BEGIN
476      HELP_DESC [DSC$W_LENGTH] = .LEN;
477      HELP_DESC [DSC$A_POINTER] = CH$PTR (.ADDR);
478      END
479      ELSE
480      +
481      - No file name was given, so restore it to the default help file
482      -
483      BEGIN
484      HELP_DESC [DSC$W_LENGTH] = CH$RCHAR (EDT$$HDEF_FILE);
485      HELP_DESC [DSC$A_POINTER] = CH$PTR (EDT$$RDEF_FILE, 1);
486      END;
487
488      IF (.EDT$$G_HELP_SET)
489      THEN
490      +
491      - Close the old help library because we are opening a new one
492      -
493      IF ( NOT LBR$CLOSE (EDT$$Z_LBR_INDEX))
494      THEN
495      BEGIN
496      EDT$$FMT MSG (EDT$_HLPFILCLO);
497      RETURN (0)
498      END;
499
500      +
501      - Attempt to initialize the help library. Do this whenever Help is SET.
502      -
503      IF ( NOT LBR$INI_CONTROL (EDT$$Z_LBR_INDEX, %REF (LBR$C_READ), %REF (LBR$C_TYP_HLP)))
504      THEN
505      BEGIN
506      EDT$$FMT MSG (EDT$_NOHLPINI);
507      RETURN (0);
508      END;
509
510      +
511      - Set up the default help file name descriptor
512      -
513      HELP_DEFAULT_FILE_NAME_DESC [DSC$W_LENGTH] = CH$RCHAR (EDT$$HDEF_NAM);
514      HELP_DEFAULT_FILE_NAME_DESC [DSC$A_POINTER] = CH$PTR (EDT$$RDEF_NAM, 1);
515
516      +
517      - Set up the resultant help file name descriptor
518      -
519      RESULT_DESC [DSC$W_LENGTH] = NAM$C_MAXRSS;
520
```

```

521 1118 2 RESULT_DESC [DSC$A_POINTER] = CH$PTR (PARSE_HNAM);
522 1119 2 RESULT_LEN = 0;
523 1120 2
524 1121 2 Attempt to open the help library.
525 1122 2
526 1123 2
527 1124 2 IF ( NOT LBR$OPEN (EDT$$Z_LBR_INDEX, HELP_DESC, 0, HELP_DEFAULT_FILE_NAME_DESC, 0, RESULT_DESC,
528 1125 2 RESULT_LEN))
529 1126 2 THEN
530 1127 2 BEGIN
531 1128 2 EDT$$G_HELP_SET = 0; ! Next time re-open the old help file
532 1129 2 EDT$$FMT_MSG (EDT$ NOHLPV);
533 1130 2 EDT$$MSG_TOSTR (EDT$_FILNAM);
534 1131 2
535 1132 2 IF (.RESULT_LEN EQL 0)
536 1133 2 THEN
537 1134 2 EDT$$FMT_STR (.HELP_DESC [DSC$A_POINTER], .HELP_DESC [DSC$W_LENGTH])
538 1135 2 ELSE
539 1136 2 EDT$$FMT_STR (.RESULT_DESC [DSC$A_POINTER], .RESULT_LEN);
540 1137 2
541 1138 2 EDT$$OUT_FMTBUF ();
542 1139 2 RETURN (0);
543 1140 2 END;
544 1141 2
545 1142 2 EDT$$G_HELP_SET = 1; ! Means that SET_HELP was successful in opening a help file
546 1143 2
547 1144 2 Store the new Help File name and name length in the globals
548 1145 2
549 1146 2 EDT$$CPY MEM (.RESULT_LEN, CH$PTR (PARSE_HNAM), CH$PTR (EDT$$T_HELP_NAM));
550 1147 2 EDT$$G_HELP_NAMLEN = .RESULT_LEN;
551 1148 2 RETURN (1);
552 1149 2 END; ! of routine EDT$$SET_HLPFNAM

```

Address	OpCode	Operand 1	Operand 2	Operand 3	Instruction	Comment	Address
			01FC	00000	.ENTRY	EDT\$\$SET_HLPFNAM, Save R2,R3,R4,R5,R6,R7,R8	1006
58	00000000G	00	9E	00002	MOVAB	EDT\$\$FMT_MSG, R8	
57	00000000G	00	9E	00009	MOVAB	EDT\$\$Z_LBR_INDEX, R7	
56	00000000G	00	9E	00010	MOVAB	EDT\$\$G_HELP_SET, R6	
5E	FEDC	CE	9E	00017	MOVAB	-292(SP), SP	
1C	AE 010E0000	8F	D0	0001C	MOVL	#17694720, HELP_DESC	1015
		20	AE	D4	CLRL	HELP_DESC+4	
14	AE 010E0000	8F	D0	00027	MOVL	#17694720, RESULT_DESC	1058
		18	AE	D4	CLRL	RESULT_DESC+4	
0C	AE 010E0000	8F	D0	00032	MOVL	#17694720, HELP_DEFAULT_FILE_NAME_DESC	1061
		10	AE	D4	CLRL	HELP_DEFAULT_FILE_NAME_DESC+4	
000000FF	8F	08	AC	D1	CMP	LEN, #255	1063
		08	08	15	BLEQ	1\$	
	00000000G	8F	DD	00047	PUSHL	#EDT\$_INVSTR	1066
		58	11	0004D	BRB	5\$	
		08	AC	D5	TSTL	LEN	1070
		0C	13	00052	BEQL	2\$	
1C	AE	08	AC	B0	MOVW	LEN, HELP_DESC	1073
20	AE	04	AC	D0	MOVL	ADDR, HELP_DESC+4	1074
		10	11	0005E	BRB	3\$	1070

1C	AE	00000000G	00	9B	00060	2\$:	MOVZBW	EDT\$\$T_HDEF_FILE, HELP_DESC	1081	
20	AE	00000000G	00	9E	00068		MOVAB	EDT\$\$T_HDEF_FILE+1, HELP_DESC+4	1082	
			14	66	E9	00070	3\$:	BLBC	EDT\$\$G_HELP_SET, 4\$	1085
				57	DD	00073		PUSHL	R7	1091
00000000G	00		01	FB	00075		CALLS	#1, LBR\$CLOSE		
	08		50	E8	0007C		BLBS	R0, 4\$		
		00000000G	8F	DD	0007F		PUSHL	#EDT\$_HLPFILCLO	1094	
			20	11	00085		BRB	5\$		
04	AE		03	D0	00087	4\$:	MOVL	#3, 4(SP)	1102	
		04	AE	9F	0008B		PUSHAB	4(SP)		
04	AE		01	D0	0008E		MOVL	#1, 4(SP)		
		04	AE	9F	00092		PUSHAB	4(SP)		
			57	DD	00095		PUSHL	R7		
00000000G	00		03	FB	00097		CALLS	#3, LBR\$INI_CONTROL		
	08		50	E8	0009E		BLBS	R0, 6\$		
		00000000G	8F	DD	000A1		PUSHL	#EDT\$_NOHLPINI	1105	
	68		01	FB	000A7	5\$:	CALLS	#1, EDT\$\$FMT_MSG		
			73	11	000AA		BRB	9\$	1106	
0C	AE	00000000G	00	9B	000AC	6\$:	MOVZBW	EDT\$\$T_HDEF_NAM, -	1112	
								HELP_DEFAULT_FILE_NAME_DESC		
10	AE	00000000G	00	9E	000B4		MOVAB	EDT\$\$T_HDEF_NAM+1, -	1113	
								HELP_DEFAULT_FILE_NAME_DESC+4		
14	AE		FF	8F	9B	000BC	MOVZBW	#255, RESULT_DESC	1117	
18	AE		24	AE	9E	000C1	MOVAB	PARSE_HNAM, RESULT_DESC+4	1118	
			08	AE	D4	000C6	CLRL	RESULT_LEN	1119	
			08	AE	9F	000C9	PUSHAB	RESULT_LEN	1124	
			18	AE	9F	000CC	PUSHAB	RESULT_DESC		
				7E	D4	000CF	CLRL	-(SP)		
			18	AE	9F	000D1	PUSHAB	HELP_DEFAULT_FILE_NAME_DESC		
				7E	D4	000D4	CLRL	-(SP)		
			30	AE	9F	000D6	PUSHAB	HELP_DESC		
				57	DD	000D9	PUSHL	R7		
00000000G	00		07	FB	000DB		CALLS	#7, LBR\$OPEN		
	3C		50	E8	000E2		BLBS	R0, 10\$		
			66	D4	000E5		CLRL	EDT\$\$G_HELP_SET	1128	
		00000000G	8F	DD	000E7		PUSHL	#EDT\$_NOHLPVIL	1129	
	68		01	FB	000ED		CALLS	#1, EDT\$\$FMT_MSG		
		00000000G	8F	DD	000F0		PUSHL	#EDT\$_FILNAM	1130	
00000000G	00		01	FB	000F6		CALLS	#1, EDT\$\$MSG_TOSTR		
			08	AE	D5	000FD	TSTL	RESULT_LEN	1132	
				09	12	00100	BNEQ	7\$		
	7E		1C	AE	3C	00102	MOVZWL	HELP_DESC, -(SP)	1134	
			24	AE	DD	00106	PUSHL	HELP_DESC+4		
			06	11	00109		BRB	8\$		
			08	AE	DD	0010B	7\$:	PUSHL	RESULT_LEN	1136
			1C	AE	DD	0010E		PUSHL	RESULT_DESC+4	
00000000G	00		02	FB	00111	8\$:	CALLS	#2, EDT\$\$FMT_STR		
00000000G	00		00	FB	00118		CALLS	#0, EDT\$\$OUT_FMTBUF	1138	
			19	11	0011F	9\$:	BRB	11\$	1139	
			01	D0	00121	10\$:	MOVL	#1, EDT\$\$G_HELP_SET	1142	
00000000G	00		66	AE	28	00124	MOVC3	RESULT_LEN, PARSE_HNAM, EDT\$\$T_HELP_NAM	1146	
	24	00	08	AE	D0	0012E	MOVL	RESULT_LEN, EDT\$\$G_HELP_NAM_LEN	1147	
00000000G	00		08	AE	D0	00136	MOVL	#1, R0	1148	
			50	D0	00139		RET			
				04	0013A	11\$:	CLRL	R0	1149	
				04	0013C		RET			

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
EDT\$\$SET_HLPPFNAM - set help library name

16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]HELP.B32;1

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EDT
V04

: Routine Size: 317 bytes, Routine Base: _EDT\$CODE + 0196

: 553 1150 1
: 554 1151 1 !<BLF/PAGE>

.....

: 556 1152 1 END
: 557 1153 1
: 558 1154 0 ELUDOM

! of module EDT\$HELP

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$DATA	8	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
_EDT\$CODE	723	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2 0	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1 50	7	00:00.1
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	10 0	581	00:03.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:HELP/OBJ=OBJ\$:HELP MSRC\$:HELP.B32/UPDATE=(ENH\$:HELP)

: Size: 719 code + 12 data bytes
: Run Time: 00:37.3
: Elapsed Time: 00:47.3
: Lines/CPU Min: 1855
: Lexemes/CPU-Min: 8244
: Memory Used: 160 pages
: Compilation Complete

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