


```

1 0001 0 %TITLE 'EDT$CHMSCHSTR - search for a string'
2 0002 0 MODULE EDT$CHMSCHSTR ( ! Search for a string
3 0003 0 IDENT = 'V04-000' ! File: CHMSCHSTR.BLI Edit: JBS1009
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
11 0011 1 * ALL RIGHTS RESERVED. *
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
18 0018 1 * TRANSFERRED. *
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
22 0022 1 * CORPORATION. *
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
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 This module scans text looking for the search string.
37 0037 1
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Bob Kushlis, CREATION DATE: Unknown
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 04-Feb-1981. This module was created by
45 0045 1 extracting the routine EDT$$STR_SEA from module CHANGE.BLI.
46 0046 1 1-002 - Regularize header. JBS 03-Mar-1981
47 0047 1 1-003 - Don't check for control C so frequently. JBS 28-Jul-1981
48 0048 1 1-004 - Add new WPS search. SIS 05-Oct-1981 (note added 24-May-1982)
49 0049 1 1-005 - Set a flag if control C actually aborts something. JBS 24-May-1982
50 0050 1 1-006 - Remove EDT$$A_STR_CMP. JBS 20-Jul-1982
51 0051 1 1-007 - Remove reference to EDT$$TST_CHALFA, it is not used. JBS 20-Jul-1982
52 0052 1 1-008 - Do some work on performance. JBS 04-Jan-1983
53 0053 1 1-009 - Add conditionals for VT220 support. JBS 11-Feb-1983
54 0054 1 --
55 0055 1

```

: R

: 1
: 1
: 1


```
151 0721 2
152 L 0722 2 %IF SUPPORT_VT220
153 0723 2 %THEN
154 0724 2
155 0725 2 BIND
156 0726 2 GENERAL_TABLE = UPLIT (BYTE (CHAR_GENERAL)) : VECTOR [256, BYTE];
157 0727 2
158 0728 2 %FI
159 0729 2
160 0730 2 LOCAL
161 0731 2 REM,
162 0732 2 LP,
163 0733 2 LE,
164 0734 2 FC,
165 0735 2 L_LEN, ! Local copy of length parameter
166 0736 2
167 L 0737 2 %IF SUPPORT_VT220
168 0738 2 %THEN
169 0739 2 P_GEN_TABLE : REF VECTOR [256, BYTE]; ! Pointer to table declared above
170 0740 2
171 U 0741 2 %ELSE
172 U 0742 2 TC;
173 0743 2 %FI
174 0744 2
175 0745 2 !+
176 0746 2 ! Remember the first character so we can avoid compares
177 0747 2 ! when first characters cannot possibly match.
178 0748 2 !-
179 0749 2 FC = CH$RCHAR (.ADDR);
180 0750 2 !+
181 0751 2 ! Get a pointer to the translate table, to speed access to it.
182 0752 2 !-
183 0753 2
184 L 0754 2 %IF SUPPORT_VT220
185 0755 2 %THEN
186 0756 2 P_GEN_TABLE = GENERAL_TABLE [0];
187 U 0757 2 %ELSE
188 0758 2
189 U 0759 2 IF ((.FC GEQ %C'a') AND (.FC LEQ %C'z')) THEN FC = .FC - %C'a' + %C'A';
190 U 0760 2
191 0761 2 %FI
192 0762 2
193 0763 2 !+
194 0764 2 ! Get a local copy of the length parameter, to speed tests of it.
195 0765 2 !-
196 0766 2 L_LEN = .LEN;
197 0767 2 !
198 0768 2 LP = CH$PTR (EDT$$A_WK_LN [LIN_TEXT], .EDT$$A_CUR_BUF [TBCB CHAR_POS]);
199 0769 2 LE = CH$PTR (EDT$$A_WK_LN [LIN_TEXT], .EDT$$A_WK_LEN [LIN_LENGTH]);
200 0770 2
201 0771 2 WHILE 1 DO
202 0772 3 BEGIN
203 0773 3
204 0774 4 IF ((REM = CH$DIFF (.LE, .LP)) GEQ .L_LEN)
205 0775 3 THEN
206 0776 3 !+
207 0777 3 ! Perform a quick test for feasibility; this will avoid calling EDT$$$STR_CMP for many
```

```
208      0778      3      ! non-matches.
209      0779      3      !-
210      0780      3      !-
211      L 0781      3      %IF SUPPORT_VT220
212      0782      3      %THEN
213      0783      3
214      0784      4      IF (.P_GEN_TABLE [CH$RCHAR (.LP)] EQL .P_GEN_TABLE [.FC])
215      0785      3      THEN
216      U 0786      3      %ELSE
217      U 0787      3      TC = CH$RCHAR (.LP);
218      U 0788      3
219      U 0789      3      IF ((.TC GEQ %'a') AND (.TC LEQ %'z')) THEN TC = .TC - %'a' + %'A';
220      U 0790      3
221      U 0791      3      IF (.TC EQL .FC)
222      U 0792      3      THEN
223      U 0793      3      %FI
224      0794      3
225      0795      3      IF EDT$$STR_CMP (.LP, .ADDR, .L_LEN, .EDT$$G_EXCT_MATCH)
226      0796      3      THEN
227      0797      4      BEGIN
228      0798      4      EDT$$A_CUR_BUF [TBCB_CHAR_POS] = CH$DIFF (.LP, CH$PTR (EDT$$A_WK_LN [LIN_TEXT]));
229      0799      4      RETURN (1);
230      0800      3      END;
231      0801      3
232      0802      4      IF (.DIR EQL DIR_BACKWARD)
233      0803      3      THEN
234      0804      3
235      0805      4      IF (.LP EQL CH$PTR (EDT$$A_WK_LN [LIN_TEXT]))
236      0806      3      THEN
237      0807      4      BEGIN
238      0808      4
239      0809      4      IF ( NOT EDT$$RD_PV LN ()) THEN RETURN (0);
240      0810      4
241      0811      4      IF EDT$$CHK_CC ()
242      0812      4      THEN
243      0813      5      BEGIN
244      0814      5      EDT$$G_CC_DONE = 1;
245      0815      5      RETURN (2);
246      0816      4      END;
247      0817      4
248      0818      4      LP = LE = CH$PTR (EDT$$A_WK_LN [LIN_TEXT], .EDT$$A_WK_LN [LIN_LENGTH]);
249      0819      4      END
250      0820      3      ELSE
251      0821      3      LP = CH$PLUS (.LP, -1)
252      0822      3
253      0823      3      ELSE
254      0824      3
255      0825      4      IF (.REM LEQ .L_LEN)
256      0826      3      THEN
257      0827      4      BEGIN
258      0828      4
259      0829      4      IF ( NOT EDT$$RD_NXTLN ()) THEN RETURN (0);
260      0830      4
261      0831      4      IF EDT$$CHK_CC ()
262      0832      4      THEN
263      0833      5      BEGIN
264      0834      5      EDT$$G_CC_DONE = 1;
```

```

: 265      0835      5          RETURN (2);
: 266      0836      4          END;
: 267      0837      4
: 268      0838      4
: 269      0839      4          LP = CH$PTR (EDT$$A_WK_LN [LIN_TEXT]);
: 270      0840      4          LE = CH$PTR (.LP, .EDT$$A_WK_LN [LIN_LENGTH]);
: 271      0841      3          END
: 272      0842      3          ELSE
: 273      0843      3              LP = CH$PLUS (.LP, 1)
: 274      0844      3          END
: 275      0845      3
: 276      0846      1          END;

```

! of routine EDT\$\$STR_SEA

.TITLE EDT\$CHMSCHSTR EDT\$CHMSCHSTR - search for a string

.IDENT \V04-000\

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

OE	OD	OC	OB	OA	O9	O8	O7	O6	O5	O4	O3	O2	O1	O0	00000	P.AAA:
1D	1C	1B	1A	19	18	17	16	15	14	13	12	11	10	0F	0000F	.BYTE
2C	2B	2A	29	28	27	26	25	24	23	22	21	20	1F	1E	0001E	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, -
3B	3A	39	38	37	36	35	34	33	32	31	30	2F	2E	2D	0002D	13, 14, 15, 16, 17, 18, 19, 20, 21, 22, -
4A	49	48	47	46	45	44	43	42	41	40	3F	3E	3D	3C	0003C	23, 24, 25, 26, 27, 28, 29, 30, 31, 32, -
59	58	57	56	55	54	53	52	51	50	4F	4E	4D	4C	4B	0004B	33, 34, 35, 36, 37, 38, 39, 40, 41, 42, -
4B	47	46	45	44	43	42	41	60	5F	5E	5D	5C	5B	5A	0005A	43, 44, 45, 46, 47, 48, 49, 50, 51, 52, -
57	56	55	54	53	52	51	50	4F	4E	4D	4C	4B	4A	49	00069	53, 54, 55, 56, 57, 58, 59, 60, 61, 62, -
86	85	84	83	82	81	80	7F	7E	7D	7C	7B	7A	79	78	00078	63, 64, 65, 66, 67, 68, 69, 70, 71, 72, -
95	94	93	92	91	90	8F	8E	8D	8C	8B	8A	89	88	87	00087	73, 74, 75, 76, 77, 78, 79, 80, 81, 82, -
A4	A3	A2	A1	A0	9F	9E	9D	9C	9B	9A	99	98	97	96	00096	83, 84, 85, 86, 87, 88, 89, 90, 91, 92, -
B3	B2	B1	B0	AF	AE	AD	AC	AB	AA	A9	A8	A7	A6	A5	000A5	93, 94, 95, 96, 65, 66, 67, 68, 69, 70, -
41	41	41	BF	BE	BD	BC	BB	BA	B9	B8	B7	B6	B5	B4	000B4	71, 72, 73, 74, 75, 76, 77, 78, 79, 80, -
4E	D0	49	49	49	49	45	45	45	45	43	C6	41	41	41	000C3	81, 82, 83, 84, 85, 86, 87, 88, 89, 90, -
41	DF	DE	59	55	55	55	55	4F	D7	4F	4F	4F	4F	4F	000D2	123, 124, 125, 126, 127, -128, -127, -
49	49	49	49	45	45	45	45	43	C6	41	41	41	41	41	000E1	-126, -125, -124, -123, -122, -121, -120, -
FE	59	55	55	55	55	4F	D7	4F	4F	4F	4F	4E	FO	000FO	-119, -118, -117, -116, -115, -114, -113, -	
															000FF	-112, -111, -110, -109, -108, -107, -106, -
																-105, -104, -103, -102, -101, -100, -99, -
																-98, -97, -96, -95, -94, -93, -92, -91, -
																-90, -89, -88, -87, -86, -85, -84, -83, -
																-82, -81, -80, -79, -78, -77, -76, -75, -
																-74, -73, -72, -71, -70, -69, -68, -67, -
																-66, -65, 65, 65, 65, 65, 65, 65, -58, -
																67, 69, 69, 69, 69, 73, 73, 73, 73, -48, -
																78, 79, 79, 79, 79, 79, -41, 79, 85, 85, -
																85, 85, 89, -34, -33, 65, 65, 65, 65, -
																65, -58, 67, 69, 69, 69, 69, 73, 73, 73, -
																73, -16, 78, 79, 79, 79, 79, 79, -41, 79, -
																85, 85, 85, 85, 89, -2, -1

```

GENERAL_TABLE=
.P.AAA
.EXTRN EDT$$CHK_CC, EDT$$RD NXTLN
.EXTRN EDT$$RD_PRLN, EDT$$STR_CMP
.EXTRN EDT$$G_EXCT_MATCH
.EXTRN EDT$$A_CUR_BUF, EDT$$A_WK_LN
.EXTRN EDT$$G_CC_DONE

```

07FC 0000

.ENTRY EDT\$\$STR_SEA, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0666

	5A	00000000G	00	9E	00002	MOVAB	R10			
	59	00000000G	00	9E	00009	MOVAB	EDT\$\$CHK_CC, R10			
	58	00000000G	00	9E	00010	MOVAB	EDT\$\$A_CUR_BUF, R9			
	57	04	BC	9A	00017	MOVZBL	EDT\$\$A_WK_CN, R8			
	54	FEE1	CF	9E	0001B	MOVZBL	@ADDR, FC	0749		
	56	08	AC	DO	00020	MOVAB	GENERAL_TABLE, P_GEN_TABLE	0756		
	51		68	DO	00024	MOVL	LEN, L_LEN	0766		
	50		69	DO	00027	MOVL	EDT\$\$A_WK_LN, R1	0768		
	53	0C	A0	3C	0002A	MOVL	EDT\$\$A_CUR_BUF, R0			
	53		51	C0	0002E	MOVZWL	12(R0), R3			
	52	07	A3	9E	00031	ADDL2	R1, R3			
	50		61	9A	00035	MOVAB	7(R3), LP			
	51		50	C0	00038	MOVZBL	(R1), R0	0769		
	53	07	A1	9E	0003B	ADDL2	R0, R1			
55	53		52	C3	0003F	MOVAB	7(R1), LE			
	56		55	D1	00043	SUBL3	LP, LE, REM	0774		
			31	19	00046	CMPL	REM, L_LEN			
	50		62	9A	00048	BLSS	2\$			
6744			6044	91	0004B	MOVZBL	(LP), R0	0784		
			27	12	00050	CMPL	(R0)[P_GEN_TABLE], (FC)[P_GEN_TABLE]			
		00000000G	00	DD	00052	BNEQ	2\$			
			56	DD	00058	PUSHL	EDT\$\$G_EXCT_MATCH	0795		
		04	AC	DD	0005A	PUSHL	L_LEN			
			52	DD	0005D	PUSHL	ADDR			
	00000000G	00	04	FB	0005F	PUSHL	LP			
		10	50	E9	00066	CALLS	#4, EDT\$\$STR_CMP			
		50	69	DO	00069	BLBC	R0, 2\$			
	51		52	DO	0006C	MOVL	EDT\$\$A_CUR_BUF, R0	0798		
OC	A0		51	C3	0006C	SUBL3	EDT\$\$A_WK_CN, LP, R1			
			50	07	A3	SUBW3	#7, R1, 12(R0)			
				01	DO	MOVL	#1, R0	0799		
				04	00078	RET				
			OC	AC	D5	00079	TSTL	DIR	0802	
				2F	12	0007C	BNEQ	5\$		
	50		68	07	C1	0007E	ADDL3	#7, EDT\$\$A_WK_LN, R0	0805	
			50	52	D1	00082	CMPL	LP, R0		
				22	12	00085	BNEQ	4\$		
	00000000G	00	00	FB	00087	CALLS	#0, EDT\$\$RD_PVRLN	0809		
		2B	50	E9	0008E	BLBC	R0, 6\$			
		6A	00	FB	00091	CALLS	#0, EDT\$\$CHK_CC	0811		
		2E	50	E8	00094	BLBS	R0, 8\$			
		50	68	DO	00097	MOVL	EDT\$\$A_WK_LN, R0	0818		
		51	60	9A	0009A	MOVZBL	(R0), R1			
		50	51	C0	0009D	ADDL2	R1, R0			
		53	07	A0	9E	000A0	MOVAB	7(R0), LE		
		52	53	DO	000A4	MOVL	LE, LP			
			96	11	000A7	BRB	1\$	0805		
			52	D7	000A9	DECL	LP	0821		
			92	11	000AB	BRB	1\$	0805		
		56	55	D1	000AD	CMPL	REM, L_LEN	0825		
			2D	14	000B0	BGTR	10\$			
	00000000G	00	00	FB	000B2	CALLS	#0, EDT\$\$RD_NXTLN	0829		
		03	50	E8	000B9	BLBS	R0, 7\$			
			50	D4	000BC	CLRL	R0			
				04	000BE	RET				
		6A	00	FB	000BF	CALLS	#0, EDT\$\$CHK_CC	0831		
		0B	50	E9	000C2	BLBC	R0, 9\$			

EDT\$CHMSCHSTR
V04-000

EDT\$CHMSCHSTR - search for a string
EDT\$\$STR_SEA - search for a string

M 10
16-Sep-1984 00:10:50
14-Sep-1984 12:22:45

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMSCHSTR.BLI;1

Page 8
(3)

EDT\$
V04-

00000000G	00	01	D0	000C5	8\$:	MOVL	#1, EDT\$\$G_CC_DONE	:	0834
	50	02	D0	000CC		MOVL	#2, R0	:	0835
			04	000CF		RET		:	
	50	68	D0	000D0	9\$:	MOVL	EDT\$\$A_WK_LN, R0	:	0838
	52	07	A0	9E 000D3		MOVAB	7(R0), LP	:	
	53		60	9A 000D7		MOVZBL	(R0), LE	:	0839
	53		52	C0 000DA		ADDL2	LP, LE	:	
			C8	11 000DD		BRB	3\$:	0825
			52	D6 000DF	10\$:	INCL	LP	:	0842
			C4	11 000E1		BRB	3\$:	0802

: Routine Size: 227 bytes, Routine Base: _EDT\$CODE + 0100

: 277 0847 1
: 278 0848 1 !<BLF/PAGE>

: R0
:
: 1
: 1

CHMMRKCHG LIS	CHMPARSEN LIS	CHMSELPOS LIS	CHMSPLLIN LIS	DATA LIS
CHMUNDEL LIS	COMMAND LIS	CHMONSTR LIS	CHMSAVPOS LIS	CHMSCHSTR LIS
CHMREPOS LIS	CHMMESS LIS	CHMPASTE LIS	CHMSENDEL LIS	CHMTAD LIS
CHMSAVTXT LIS	CHMNEWLEN LIS	CHMPARSE LIS	CHMSAVLIN LIS	CLRKEY LIS
CHMSUBS LIS				