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SSSSSSSS TTTTTTTT RRRRRRRR UU UU PPPPPPPP CCCCCCCC AAAAAA SSSSSSSS EEEEEEEEE
SSSSSSSS TTTTTTTT RRRRRRRR UU UU PPPPPPPP CCCCCCCC AAAAAA SSSSSSSS EEEEEEEEE
SS SS TT TT RR RR UU UU PP PP CC CC AA AA SS SS EE EE
SS SS TT TT RR RR UU UU PP PP CC CC AA AA SS SS EE EE
SS SSSSSS TT TT RRRRRRRR UU UU PPPPPPPP CCCCCCCC AA AA SS SSSSSS EEEEEEE
SS SSSSSS TT TT RRRRRRRR UU UU PPPPPPPP CCCCCCCC AA AA SS SSSSSS EEEEEEE
SS SS TT TT RR RR UU UU PP PP CC CC AAAAAAAAAA SS SS EE EE
SS SS TT TT RR RR UU UU PP PP CC CC AAAAAAAAAA SS SS EE EE
SS SS TT TT RR RR UU UU PP PP CC CC AA AA SS SS EE EE
SSSSSSSS TT TT RR RR UUUUUUUUU PP PP CCCCCCCC AA AA SSSSSSSS EEEEEEEEE
SSSSSSSS TT TT RR RR UUUUUUUUU PP PP CCCCCCCC AA AA SSSSSSSS EEEEEEEEE
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LL LL IIIIII SSSSSSSS
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```
1 0001 0 MODULE STRUPCASE (          ! copy source to dest and upcase
2 0002 0
3 0003 0 IDENT = '1-006' ! File: STRUPCASE.B32 Edit: DG1006
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: String support library
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This module takes strings of any supported class or dtype and
38 0038 1 copies the source string to the destination string, upcasing
39 0039 1 all letters a-z and all letters with diacritical marks.
40 0040 1 This routine is needed so that if a user wants any character
41 0041 1 comparison to be case blind, he will first convert both strings
42 0042 1 to upper case.
43 0043 1
44 0044 1 ENVIRONMENT: User mode, AST level or not or mixed
45 0045 1
46 0046 1 AUTHOR: R. Will, CREATION DATE: 1-Dec-79
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 R. Will, 1-Dec-79: VERSION 01
51 0051 1 1-001 - Original
52 0052 1 1-002 - String speedup, status from macros. RW 11-Jan-1980
53 0053 1 1-003 - Enhance to recognize additional classes of descriptors by
54 0054 1 using $STR$GET_LEN_ADDR to extract length and address of
55 0055 1 first data byte. Remove string interlocking code.
56 0056 1 RKR 29-APR-1981
57 0057 1 1-004 - Speed up code. RKR 7-OCT-1981.
```

STRUPCASE
1-006

K 8
16-Sep-1984 01:51:14 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:40:17 [LIBRTL.SRC]STRUPCASE.B32;1

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(1)

```
: 58      0058 1 ! 1-005 - Use STR$COPY R R8 for copying. Use $STR$SIGNAL_FATAL
: 59      0059 1 !      instead of $STR$CHECK STATUS. RKR 18-NOV-1981.
: 60      0060 1 ! 1-006 - Enhance to use DEC Multinational Char. Set. DG 1-Nov-1983.
: 61      0061 1 ! --
: 62      0062 1 !
: 63      0063 1 ! <BLF/PAGE>
```



```

65      0064 1 |
66      0065 1 | SWITCHES:
67      0066 1 |
68      0067 1 |
69      0068 1 | SWITCHES ADDRESSING_MODE
70      0069 1 | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
71      0070 1 |
72      0071 1 |
73      0072 1 | LINKAGES:
74      0073 1 |
75      0074 1 |
76      0075 1 | REQUIRE 'RTLIN:STRLNK';           ! Use require file with string linkage
77      0260 1 |
78      0261 1 |
79      0262 1 | TABLE OF CONTENTS:
80      0263 1 |
81      0264 1 |
82      0265 1 | FORWARD ROUTINE
83      0266 1 | STRUPCASE;                       ! convert lowercase to uppercase
84      0267 1 |
85      0268 1 |
86      0269 1 | INCLUDE FILES:
87      0270 1 |
88      0271 1 |
89      0272 1 | REQUIRE 'RTLIN:RTLPSECT';        ! Declare PSECTS code
90      0367 1 |
91      0368 1 | REQUIRE 'RTLIN:STRMACROS';       ! use string macros to code
92      1284 1 |
93      1285 1 | LIBRARY 'RTLSTARLE';            ! STARLET library for macros and symbol
94      1286 1 |
95      1287 1 |
96      1288 1 | MACROS: NONE
97      1289 1 |
98      1290 1 |
99      1291 1 |
100     1292 1 | EQUATED SYMBOLS: NONE
101     1293 1 |
102     1294 1 |
103     1295 1 |
104     1296 1 | PSECT DECLARATIONS
105     1297 1 |
106     1298 1 |
107     1299 1 | DECLARE_PSECTS (STR);
108     1300 1 |
109     1301 1 |
110     1302 1 | OWN STORAGE: NONE
111     1303 1 |
112     1304 1 |
113     1305 1 |
114     1306 1 | EXTERNAL REFERENCES:
115     1307 1 |
116     1308 1 |
117     1309 1 | EXTERNAL ROUTINE
118     1310 1 | LIB$STOP,                         ! signal errors
119     1311 1 | STR$COPY_R_R8 : STR$JSB_COPY_R ; ! Routine to do the copy
120     1312 1 |
121     1313 1 | EXTERNAL LITERAL
```

STRIPCASE
1-006

: 122

1314 1

STR\$ _NORMAL;

M 8
16-Sep-1984 01:51:14
14-Sep-1984 12:40:17

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRUPCASE.B32;1

Page 4
(2)

! successful completion

[illegible]

```
124 1315 1 GLOBAL ROUTINE STR$UPCASE ( ! upcase
125 1316 1
126 1317 1     DEST_DESC, ! Pointer to destination descriptor
127 1318 1     SRC_DESC ! Pointer to source descriptor
128 1319 1
129 1320 1 ) : =
130 1321 1
131 1322 1 !++
132 1323 1 FUNCTIONAL DESCRIPTION:
133 1324 1
134 1325 1     This routine copies the input string to the output string and
135 1326 1     changes all lower case letters a-z plus letter with diacritcal
136 1327 1     marks to upper case
137 1328 1
138 1329 1 FORMAL PARAMETERS:
139 1330 1
140 1331 1     DEST_DESC.wt.dx pointer to destination string descriptor
141 1332 1     SRC_DESC.rt.dx  pointer to source string descriptor
142 1333 1
143 1334 1 IMPLICIT INPUTS:
144 1335 1
145 1336 1     NONE
146 1337 1
147 1338 1 IMPLICIT OUTPUTS:
148 1339 1
149 1340 1     NONE
150 1341 1
151 1342 1 COMPLETION CODES:
152 1343 1
153 1344 1     SS$ NORMAL Success
154 1345 1     STR$_TRU Truncation occurred. Warning.
155 1346 1
156 1347 1 SIDE EFFECTS:
157 1348 1
158 1349 1     May signal:
159 1350 1     STR$_FATINTERR Fatal internal error
160 1351 1     STR$_ILLSTRCLA Illegal (or unsupported) string class
161 1352 1     STR$_INSVIRMEM Insufficient virtual memory for
162 1353 1                     reallocation of dynamic string
163 1354 1
164 1355 1 --
165 1356 1
166 1357 2 BEGIN
167 1358 2
168 1359 2 LOCAL
169 1360 2     IN_LEN, ! length of input string
170 1361 2     IN_ADDR, ! addr of 1st byte of input str.
171 1362 2     OUT_LEN, ! length of output string
172 1363 2             ! (after copy operation)
173 1364 2     OUT_ADDR, ! addr of 1st byte of output
174 1365 2             ! string (after copy operation)
175 1366 2     RETURN_STATUS; ! status from STR$COPY_R_R8
176 1367 2
177 1368 2 MAP
178 1369 2     SRC_DESC : REF $STR$DESCRIPTOR,
179 1370 2     DEST_DESC : REF $STR$DESCRIPTOR;
180 1371 2
```



```
181 1372 2 +
182 1373 2 - Compute the length and addr of 1st byte of input string and signal
183 1374 2 - if fatal error returned.
184 1375 2 -
185 1376 2 $STR$GET_LEN_ADDR ( SRC_DESC, IN_LEN, IN_ADDR ) ;
186 1377 2
187 1378 2 +
188 1379 2 - Copy the string and signal if fatal error results.
189 1380 2 -
190 1381 2
191 1382 2 RETURN STATUS = STR$COPY R R8 ( .DEST_DESC, .IN_LEN, .IN_ADDR ) ;
192 1383 2 $STR$SIGNAL_FATAL (RETURN_STATUS) ;
193 1384 2
194 1385 2 +
195 1386 2 - Compute the current length of the output string.
196 1387 2 -
197 1388 2 $STR$GET_LEN_ADDR ( DEST_DESC, OUT_LEN, OUT_ADDR ) ;
198 1389 2
199 1390 2 +
200 1391 2 - The copy is finished, now upcase the destination string.
201 1392 2 -
202 1393 2
203 1394 2 CH$TRANSLATE (
204 1395 2 CH$TRANSTABLE (
205 1396 2 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ! ASCII translation table
206 1397 2 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, ! upcase the string
207 1398 2 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, ! translate to self
208 1399 2 30, 31, 32, 33, 34, 35, 36, 37, 38, 39,
209 1400 2 40, 41, 42, 43, 44, 45, 46, 47, 48, 49,
210 1401 2 50, 51, 52, 53, 54, 55, 56, 57, 58, 59,
211 1402 2 60, 61, 62, 63, 64, 65, 66, 67, 68, 69,
212 1403 2 70, 71, 72, 73, 74, 75, 76, 77, 78, 79,
213 1404 2 80, 81, 82, 83, 84, 85, 86, 87, 88, 89,
214 1405 2 90, 91, 92, 93, 94, 95, 96,
215 1406 2
216 1407 2 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, ! lower to upper
217 1408 2 78, 79, 80, 81, 82, 83, 84, 85, 86, 87,
218 1409 2 88, 89, 90,
219 1410 2
220 1411 2
221 1412 2 123, 124, 125, 126, 127, 128, 129, ! translate to self
222 1413 2 130, 131, 132, 133, 134, 135, 136, 137, 138, 139,
223 1414 2 140, 141, 142, 143, 144, 145, 146, 147, 148, 149,
224 1415 2 150, 151, 152, 153, 154, 155, 156, 157, 158, 159,
225 1416 2 160, 161, 162, 163, 164, 165, 166, 167, 168, 169,
226 1417 2 170, 171, 172, 173, 174, 175, 176, 177, 178, 179,
227 1418 2 180, 181, 182, 183, 184, 185, 186, 187, 188, 189,
228 1419 2 190, 191, 192, 193, 194, 195, 196, 197, 198, 199,
229 1420 2 200, 201, 202, 203, 204, 205, 206, 207, 208, 209,
230 1421 2 210, 211, 212, 213, 214, 215, 216, 217, 218, 219,
231 1422 2 220, 221, 222, 223,
232 1423 2
233 1424 2 192, 193, 194, 195, 196, 197, ! lower to upper
234 1425 2 198, 199, 200, 201, 202, 203, 204, 205, 206, 207,
235 1426 2
236 1427 2 240,
237 1428 2 ! translate to self
```



```

: 238      1429 2
: 239      1430 2
: 240      1431 2
: 241      1432 2
: 242      1433 2
: 243      1434 2
: 244      1435 2
: 245      1436 2
: 246      1437 2
: 247      1438 2
: 248      1439 2
: 249      1440 2
: 250      1441 1

      209, 210, 211, 212, 213, 214, 215, 216, 217, ! lower to upper
218, 219, 220, 221,
      254, 255),
      ! translate to self
      ! from destination
      ! never used since same
      ! string
      ! to destination

      .OUT_LEN,
      .OUT_ADDR,
      STR$R_FILL_CHAR,
      .OUT_LEN,
      .OUT_ADDR);

RETURN .RETURN_STATUS;
END;
```

!End of STR\$UPCASE

```

      .TITLE STR$UPCASE
      .IDENT \1-006\
      .PSECT _STR$CODE, NOWRT, SHR, PIC, 2
OE  OD  OC  OB  OA  O9  O8  O7  O6  O5  O4  O3  O2  O1  O0  00000 P.AAA: .BYTE 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, -
1D  1C  1B  1A  19  18  17  16  15  14  13  12  11  10  0F  0000F 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, -
2C  2B  2A  29  28  27  26  25  24  23  22  21  20  1F  1E  0001E 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, -
3B  3A  39  38  37  36  35  34  33  32  31  30  2F  2E  2D  0002D 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, -
4A  49  48  47  46  45  44  43  42  41  40  3F  3E  3D  3C  0003C 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, -
59  58  57  56  55  54  53  52  51  50  4F  4E  4D  4C  4B  0004B 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, -
48  47  46  45  44  43  42  41  60  5F  5E  5D  5C  5B  5A  0005A 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, -
57  56  55  54  53  52  51  50  4F  4E  4D  4C  4B  4A  49  00069 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, -
86  85  84  83  82  81  80  7F  7E  7D  7C  7B  7A  79  78  00078 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, -
95  94  93  92  91  90  8F  8E  8D  8C  8B  8A  89  88  87  00087 93, 94, 95, 96, 65, 66, 67, 68, 69, 70, -
A4  A3  A2  A1  A0  9F  9E  9D  9C  9B  9A  99  98  97  96  00096 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, -
B3  B2  B1  B0  BF  BE  BD  BC  BB  BA  B9  B8  B7  B6  B5  000A5 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, -
C2  C1  C0  BF  BE  BD  BC  BB  BA  B9  B8  B7  B6  B5  B4  000B4 123, 124, 125, 126, 127, -128, -127, -
D1  D0  CF  CE  CD  CC  CB  CA  C9  C8  C7  C6  C5  C4  C3  C2  000C3 -126, -125, -124, -123, -122, -121, -120, -
CO  DF  DE  DD  DC  DB  DA  D9  D8  D7  D6  D5  D4  D3  D2  D1  000D2 -119, -118, -117, -116, -115, -114, -113, -
CF  CE  CD  CC  CB  CA  C9  C8  C7  C6  C5  C4  C3  C2  C1  000E1 -112, -111, -110, -109, -108, -107, -106, -
FE  DD  DC  DB  DA  D9  D8  D7  D6  D5  D4  D3  D2  D1  F0  000F0 -105, -104, -103, -102, -101, -100, -99, -
      FF  000FF -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, -64, -63, -62, -61, -60, -59, -
      -58, -57, -56, -55, -54, -53, -52, -51, -
      -50, -49, -48, -47, -46, -45, -44, -43, -
      -42, -41, -40, -39, -38, -37, -36, -35, -
      -34, -33, -32, -31, -30, -29, -28, -27, -26, -25, -24, -23, -22, -21, -20, -19, -18, -17, -16, -15, -14, -13, -12, -11, -10, -9, -8, -7, -6, -5, -4, -3, -2, -1
      .EXTRN LIB$STOP, STR$COPY_R_R8
      .EXTRN STR$NORMAL, STR$ANALYZE_SDESC_R1
      .ENTRY STR$UPCASE, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 1315
      R10
      MOVAB STR$ANALYZE_SDESC_R1, R10 ;
```


50	08	AC	D0	00009	MOVL	SRC_DESC, R0	1376	
02	03	A0	91	0000D	CMPB	3(R0), #2		
		09	1A	00011	BGTRU	1\$		
53		60	3C	00013	MOVZWL	(R0), IN_LEN		
52	04	A0	D0	00016	MOVL	4(R0), IN_ADDR		
		08	11	0001A	BRB	2\$		
		6A	16	0001C	1\$: JSB	STR\$ANALYZE_SDESC_R1		
53		50	D0	0001E	MOVL	R0, R3		
52		51	D0	00021	MOVL	R1, R2		
59	04	AC	D0	00024	2\$: MOVL	DEST_DESC, R9	1382	
51		53	D0	00028	MOVL	IN_LEN, R1		
50		59	D0	0002B	MOVL	R9, R0		
		00	16	0002E	JSB	STR\$COPY_R_R8		
56		50	D0	00034	MOVL	R0, RETURN_STATUS		
10		56	E8	00037	BLBS	RETURN_STATUS, 3\$	1383	
03		00	ED	0003A	CMPZV	#0, #3, RETURN_STATUS, #4		
		09	12	0003F	BNEQ	3\$		
		56	DD	00041	PUSHL	RETURN_STATUS		
		01	FB	00043	CALLS	#1, LIB\$STOP		
		02	03	A9	91	0004A	3\$: CMPB	1388
		09	1A	0004E	BGTRU	4\$		
50		69	3C	00050	MOVZWL	(R9), OUT_LEN		
51	04	A9	D0	00053	MOVL	4(R9), OUT_ADDR		
		05	11	00057	BRB	5\$		
50		59	D0	00059	4\$: MOVL	R9, R0		
		6A	16	0005C	JSB	STR\$ANALYZE_SDESC_R1		
FE9B	CF	20	61	50	2E	0005E	5\$: MOVTC	1438
		61	50			00065		
		50	56	D0	00067	MOVL	RETURN_STATUS, R0	1440
			04	0006A	RET		1441	

; Routine Size: 107 bytes, Routine Base: _STR\$CODE + 0100

:	251	1442	1
:	252	1443	1 END
:	253	1444	1
:	254	1445	0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	363	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		

STRUPCASE
1-006

E 9
16-Sep-1984 01:51:14
14-Sep-1984 12:40:17

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRUPCASE.B32;1

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(3)

:
: _\$255\$DUA28:[SYSLIB]STARLET.L32;1 9776 6 0 581 00:00.7

:
: COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:STRUPCASE/OBJ=OBJ\$:STRUPCASE MSRC\$:STRUPCASE/UPDATE=(ENH\$:STRUPCASE
:)

: Size: 107 code + 256 data bytes
: Run Time: 00:05.8
: Elapsed Time: 00:28.1
: Lines/CPU Min: 15078
: Lexemes/CPU-Min: 38973
: Memory Used: 90 pages
: Compilation Complete

0215 AH-BT13A-SE
VAX/VMS V4.0

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