





```

1 0001 0 MODULE STR$REPLACE (           ! replace a substring in a string
2 0002 0
3 0003 0           IDENT = '1-005' ! File: STRREPLAC.B32   Edit: RKR1005
4 0004 0
5 0005 0           ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
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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 take an input string, an output string, and a
38 0038 1     replacement string of any supported class or dtype. It copies
39 0039 1     the source string to the destination string replacing the part
40 0040 1     of the source string specified by a starting position and an
41 0041 1     ending position by the replacement string.
42 0042 1
43 0043 1 ENVIRONMENT: User mode, AST level or not or mixed
44 0044 1
45 0045 1 AUTHOR: R. Will, CREATION DATE: 2-Dec-79
46 0046 1
47 0047 1 MODIFIED BY:
48 0048 1
49 0049 1     R. Will, 2-Dec-79: VERSION 01
50 0050 1     1-001 - original
51 0051 1     1-002 - String speedup, make JSB entry do code in line.
52 0052 1     RW 8-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 27-APR-81
57 0057 1     1-004 - Speed up code. RKR 7-OCT-1981.

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STR\$REPLACE  
1-005

F 4  
16-Sep-1984 01:47:28 YAX-11 Bliss-32 v4.0-742  
14-Sep-1984 12:40:13 [LIBRTL.SRC]STRREPLAC.B32;1

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: 58      0058 1 ! 1-005 - Use STR$COPY_R R8 for copy operation. Use $STR$SIGNAL_FATAL
: 59      0059 1 !      instead of $STR$CHECK_STATUS. RKR 18-NOV-1981.
: 60      0060 1 ! --
: 61      0061 1
: 62      0062 1 !<BLF/PAGE>
```

```
64 0063 1  |
65 0064 1  | SWITCHES:
66 0065 1  |
67 0066 1  |
68 0067 1  | SWITCHES ADDRESSING MODE
69 0068 1  | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
70 0069 1  |
71 0070 1  |
72 0071 1  | LINKAGES:
73 0072 1  |
74 0073 1  |
75 0074 1  | REQUIRE 'RTLIN:STRLNK';           ! Use require file with string linkage
76 0259 1  |
77 0260 1  |
78 0261 1  | TABLE OF CONTENTS:
79 0262 1  |
80 0263 1  |
81 0264 1  | FORWARD ROUTINE
82 0265 1  |   STR$REPLACE,                   ! replace a substring
83 0266 1  |   STR$REPLACE_RB : STR$JSB_REPLACE; ! replace a substring, JSB entry
84 0267 1  |
85 0268 1  |
86 0269 1  | INCLUDE FILES:
87 0270 1  |
88 0271 1  |
89 0272 1  | REQUIRE 'RTLIN:RTLPSECT';         ! Declare PSECTs code
90 0367 1  |
91 0368 1  | REQUIRE 'RTLIN:STRMACROS';       ! use string macros to code
92 1284 1  |
93 1285 1  | LIBRARY 'RTLSTARLE';             ! STARLET library for macros and symbol
94 1286 1  |
95 1287 1  |
96 1288 1  | MACROS: NONE
97 1289 1  |
98 1290 1  |
99 1291 1  |
100 1292 1  | EQUATED SYMBOLS: NONE
101 1293 1  |
102 1294 1  |
103 1295 1  |
104 1296 1  | PSECT DECLARATIONS
105 1297 1  |
106 1298 1  |
107 1299 1  | DECLARE_PSECTS (STR);
108 1300 1  |
109 1301 1  |
110 1302 1  | OWN STORAGE: NONE
111 1303 1  |
112 1304 1  |
113 1305 1  |
114 1306 1  | EXTERNAL REFERENCES:
115 1307 1  |
116 1308 1  |
117 1309 1  | EXTERNAL ROUTINE
118 1310 1  |   LIB$STOP,                       ! Routine to signal error
119 1311 1  |   STR$COPY_R_RB : STR$JSB_COPY_R ; ! Routine to do the copy
120 1312 1  |
```



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128 1319 1 GLOBAL ROUTINE STR$REPLACE (           ! Replace a substring
129 1320 1
130 1321 1     DEST_DESC,           ! Pointer to destination descriptor
131 1322 1     SRC_DESC,           ! Pointer to source descriptor
132 1323 1     START_POS,       ! First character to be included
133 1324 1     END_POS,         ! Last character position to include
134 1325 1     REPLACE_DESC    ! pointer to replacement string desc
135 1326 1
136 1327 1           ) =
137 1328 1
138 1329 1
139 1330 1  **
140 1331 1  FUNCTIONAL DESCRIPTION:
141 1332 1
142 1333 1  This routine copies to the destination string, the characters
143 1334 1  from the beginning of the source string through the character
144 1335 1  before that specified by the start position (3rd input), then
145 1336 1  it continues copying to the destination string taking the
146 1337 1  input from the replacement string (the 5th input).  When the
147 1338 1  replacement string is exhausted, the copy continues from the
148 1339 1  source string starting at the character position after the end
149 1340 1  position (4th input parameter) until the source string is
150 1341 1  exhausted.  The string is built in a temporary and copied to
151 1342 1  the destination string (by JSB to STR$COPY R R8) according
152 1343 1  to the syntax of the class of the destination string.  The
153 1344 1  following conditions will return warnings, but the listed
154 1345 1  actions will be taken.
155 1346 1  If the starting position is < 1, 1 is used.  If the ending
156 1347 1  position is > length of the source string, the length of the
157 1348 1  source string is used.  If the starting position > the ending
158 1349 1  position, the overlapping portions of the source string will be
159 1350 1  copied twice.  The CALL entry is implemented by JSBing to the
160 1351 1  JSB entry.
161 1352 1  FORMAL PARAMETERS:
162 1353 1
163 1354 1     DEST_DESC.wt.dx    pointer to destination string descriptor
164 1355 1     SRC_DESC.rt.dx    pointer to source string descriptor
165 1356 1     START_POS.rl.r    character position in source to start
166 1357 1                   substring
167 1358 1     END_POS.rl.r      character position in source to end
168 1359 1                   substring
169 1360 1     REPLACE_DESC.rt.dx pointer to replacement string descriptor
170 1361 1
171 1362 1  IMPLICIT INPUTS:
172 1363 1
173 1364 1     NONE
174 1365 1
175 1366 1  IMPLICIT OUTPUTS:
176 1367 1
177 1368 1     NONE
178 1369 1
179 1370 1  COMPLETION CODES:
180 1371 1
181 1372 1     any codes returned by STR$REPLACE_R8
182 1373 1
183 1374 1  SIDE EFFECTS:
184 1375 1

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: 185      1376 1 | any side effects of STR$REPLACE_R8
: 186      1377 1 |
: 187      1378 1 |
: 188      1379 1 |
: 189      1380 2 BEGIN
: 190      1381 2 MAP
: 191      1382 2 SRC_DESC : REF $STR$DESCRIPTOR,
: 192      1383 2 REPLACE_DESC : REF $STR$DESCRIPTOR,
: 193      1384 2 DEST_DESC : REF $STR$DESCRIPTOR;
: 194      1385 2
: 195      1386 2 RETURN STR$REPLACE_R8 (
: 196      1387 2     DEST_DESC [0,0,0,0],
: 197      1388 2     SRC_DESC [0,0,0,0],
: 198      1389 2     ..START_POS,
: 199      1390 2     ..END_POS,
: 200      1391 2     REPLACE_DESC [0,0,0,0]);
: 201      1392 2
: 202      1393 2
: 203      1394 1 END;

```

!End of STR\$REPLACE

.TITLE STR\$REPLACE  
.IDENT \1-005\

.EXTRN LIB\$STOP, STR\$COPY R R8  
.EXTRN STR\$NORMAL, STR\$ STARTOOLON  
.EXTRN STR\$\_ILLSTR\$PE, STR\$\_ILLSTR\$POS

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

```

.ENTRY STR$REPLACE, Save R2,R3,R4,R5,R6,R7,R8
MOVL REPLACE_DESC, R4
MOVL @END_POS, R3
MOVL @START_POS, R2
MOVQ DEST_DESC, R0
BSBW STR$REPLACE_R8
RET

```

```

: 1319
: 1392
:
:
:
: 1394

```

: Routine Size: 22 bytes, Routine Base: \_STR\$CODE + 0000

: 204 1395 1



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206 1396 1 GLOBAL ROUTINE STR$REPLACE_R8 ( ! replace a substring
207 1397 1
208 1398 1     DEST_DESC, ! Pointer to destination descriptor
209 1399 1     SRC_DESC, ! Pointer to source descriptor
210 1400 1     START_POS, ! First character to be included
211 1401 1     END_POS, ! Last character position to include
212 1402 1     REPLACE_DESC ! Pointer to replacement string desc
213 1403 1
214 1404 1 ) : STR$JSB_REPLACE =
215 1405 1
216 1406 1 ++
217 1407 1 FUNCTIONAL DESCRIPTION:
218 1408 1
219 1409 1 This routine copies to the destination string, the characters
220 1410 1 from the beginning of the source string through the character
221 1411 1 before that specified by the start position (3rd input), then
222 1412 1 it continues copying to the destination string taking the input
223 1413 1 from the replacement string (the 5th input). When the
224 1414 1 replacement string is exhausted, the copy continues from the
225 1415 1 source string starting at the character position after the end
226 1416 1 position (4th input parameter) until the source string is
227 1417 1 exhausted. The string is built in a
228 1418 1 temporary and copied to the destination string
229 1419 1 (by JSB to STR$COPY_R_R8) according
230 1420 1 to the syntax of the class of the destination string. The
231 1421 1 following conditions will return warnings, but the listed
232 1422 1 actions will be taken.
233 1423 1 If the starting position is < 1, 1 is used. If the ending
234 1424 1 position is > length of the source string, the length of the
235 1425 1 source string is used. If the starting position > the ending
236 1426 1 position, the overlapping portions of the source string will
237 1427 1 be copied twice.
238 1428 1
239 1429 1 FORMAL PARAMETERS:
240 1430 1
241 1431 1     DEST_DESC.wt.dx pointer to destination string descriptor
242 1432 1     SRC_DESC.rt.dx pointer to source string descriptor
243 1433 1     START_POS.rl.v character position in source to start
244 1434 1     substring
245 1435 1     END_POS.rl.v character position in source to end
246 1436 1     substring
247 1437 1     REPLACE_DESC.rt.dx pointer to replacement string descriptor
248 1438 1
249 1439 1 IMPLICIT INPUTS:
250 1440 1
251 1441 1     NONE
252 1442 1
253 1443 1 IMPLICIT OUTPUTS:
254 1444 1
255 1445 1     NONE
256 1446 1
257 1447 1 COMPLETION CODES:
258 1448 1
259 1449 1     STR$NORMAL successful completion
260 1450 1     STR$_TRU string was truncated when copied into
261 1451 1     destination
262 1452 1     STR$_ILLSTRPOS if START_POS or END_POS is < 0 or >
```

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263 1453 1 1  source-length
264 1454 1 1  STR$_ILLSTRSPE if START_POS > END_POS
265 1455 1 1
266 1456 1 1  SIDE EFFECTS:
267 1457 1 1
268 1458 1 1  allocation or deallocation of dynamic string space
269 1459 1 1  may signal STR$_INSVIRMEM, STR$_ILLSTRCLA or STR$_FATINTERR
270 1460 1 1
271 1461 1 1  --
272 1462 1 1
273 1463 2 2  BEGIN
274 1464 2 2
275 1465 2 2  LOCAL
276 1466 2 2  COPY_LENGTH,          length of string built
277 1467 2 2  ALLOC_LENGTH : UNSIGNED WORD,  actual length
278 1468 2 2  NEW_POINTER,         keep place in temp string
279 1469 2 2  ACTUAL_START,       1 <= actual_start <= srclen
280 1470 2 2  ACTUAL_END,         1 <= actual_end <= srclen
281 1471 2 2  STATUS,             status returned by copy
282 1472 2 2  RETURN_STATUS,     save status for this routine
283 1473 2 2  IN_LEN,            length of input string
284 1474 2 2  IN_ADDR,           addr of 1st byte of input
285 1475 2 2  REPL_LEN,          length of replacement string
286 1476 2 2  REPL_ADDR,         addr of 1st byte of replace.
287 1477 2 2  TEMP_DESC : $STR$DESCRIPTOR;  area to build output string
288 1478 2 2
289 1479 2 2  MAP
290 1480 2 2  SRC_DESC : REF $STR$DESCRIPTOR,
291 1481 2 2  REPLACE_DESC : REF $STR$DESCRIPTOR,
292 1482 2 2  DEST_DESC : REF $STR$DESCRIPTOR;
293 1483 2 2
294 1484 2 2  RETURN_STATUS = 1 ;          ! Assume success to follow
295 1485 2 2
296 1486 2 2  !+
297 1487 2 2  !- precompute lengths and addresses involved
298 1488 2 2
299 1489 2 2  $STR$GET_LEN_ADDR ( SRC_DESC, IN_LEN, IN_ADDR ) ;
300 1490 2 2  $STR$GET_LEN_ADDR ( REPLACE_DESC, REPL_LEN, REPL_ADDR ) ;
301 1491 2 2
302 1492 2 2  ACTUAL_START = .START_POS;
303 1493 2 2  ACTUAL_END = .END_POS;
304 1494 2 2
305 1495 2 2  !+
306 1496 2 2  !- detect error if START_POS > END_POS
307 1497 2 2
308 1498 2 2
309 1499 2 2  IF .ACTUAL_END LSS .ACTUAL_START THEN
310 1500 2 2  RETURN_STATUS = STR$_ILLSTRSPE;          ! START_POS > END_POS
311 1501 2 2
312 1502 2 2  !+
313 1503 2 2  !- actual_end is >= 0 and <= source string length
314 1504 2 2
315 1505 2 2
316 1506 2 2  IF .IN_LEN LSS .ACTUAL_END
317 1507 2 2  THEN
318 1508 2 2  BEGIN
319 1509 2 2  RETURN_STATUS = STR$_ILLSTRPOS;          ! END_POS is too large

```



```

377 1567 4
378 1568 4
379 1569 4
380 1570 4
381 1571 4
382 1572 4
383 1573 4
384 1574 4
385 1575 4
386 1576 4
387 1577 4
388 1578 4
389 1579 4
390 1580 4
391 1581 4
392 1582 4
393 1583 4
394 1584 4
395 1585 4
396 1586 4
397 1587 4
398 1588 4
399 1589 4
400 1590 4
401 1591 4
402 1592 4
403 1593 4
404 1594 4
405 1595 4
406 1596 4
407 1597 4
408 1598 4
409 1599 5
410 1600 5
411 1601 4
412 1602 3
413 1603 3
414 1604 2
415 1605 2
416 1606 2
417 1607 2
418 1608 1

```

```

!-
NEW_POINTER = CH$MOVE (.ACTUAL_START - 1, .IN_ADDR,
                      .TEMP_DESC [DSC$A_POINTER]);

!+
! copy entire replacement string onto end of temp string
NEW_POINTER = CH$MOVE (.REPL_LEN, .REPL_ADDR, .NEW_POINTER);

!+
! copy from END_POS to end in source string onto end of temp
! string.
CH$MOVE (.IN_LEN - .ACTUAL_END,
        CH$PLUS (.IN_ADDR, .ACTUAL_END),
        .NEW_POINTER);

!+
! Copy the temp to the destination string and deallocate
! the temp

STATUS = STR$COPY_R_R8 (
                      .DEST_DESC,
                      .TEMP_DESC [DSC$W_LENGTH],
                      .TEMP_DESC [DSC$A_POINTER] ) ;

IF .STATUS NEQ SSS$NORMAL
THEN RETURN_STATUS = .STATUS;           ! copy truncated, or
                                         ! fatal error, return
                                         ! instead of previous
                                         ! status

IF (NOT (STATUS = $STR$DEALLOC_TMP (TEMP_DESC))) ! deallocate
                                         ! the temp
THEN RETURN_STATUS = .STATUS;
END;                                     ! end of allocate else

END;                                     ! end of STRTOOLON else

$STR$SIGNAL_FATAL (RETURN_STATUS);      ! signal severe errors
RETURN .RETURN_STATUS;
END;                                     !End of STR$REPLACE

```

```

.EXTRN STR$ANALYZE_SDESC_R1
.EXTRN STR$$INIT, STR$$SV_INIT
.EXTRN STR$$ALLOC_SHORT
.EXTRN STR$$Q_SHORT_Q, LIB$GET_VM
.EXTRN STR$_INSVIRMEM, LIB$FREE_VM
.EXTRN STR$_FATINTERR

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```

SE          18  C2 0000 STR$REPLACE R8::
              50  DD 00003  SUBC2 #24, SP          ; 1396
              01  DD 00005  PUSHL R0
              02  03  A1 91 00007  PUSHL #1          ; 1484
              CMPB 3(SRC_DESC), #2          ; 1489

```

			0B	1A	0000B	BGTRU	1\$			
10	AE		61	3C	0000D	MOVZWL	(SRC_DESC), IN_LEN			
OC	AE	04	A1	DO	00011	MOVL	4(SRC_DESC), IN_ADDR			
			11	11	00016	BRB	2\$			
	50		51	DO	00018	1\$:	MOVL	SRC_DESC, RO		
		00000000G	00	16	0001B	JSB	STR\$ANALYZE_SDESC_R1			
10	AE		50	DO	00021	MOVL	RO, 16(SP)			
OC	AE		51	DO	00025	MOVL	R1, 12(SP)			
	02	03	A4	91	00029	2\$:	CMPB	3(REPLACE_DESC), #2	1490	
			0A	1A	0002D	BGTRU	3\$			
	57		64	3C	0002F	MOVZWL	(REPLACE_DESC), REPL_LEN			
14	AE	04	A4	DO	00032	MOVL	4(REPLACE_DESC), REPC_ADDR			
			10	11	00037	BRB	4\$			
	50		54	DO	00039	3\$:	MOVL	REPLACE_DESC, RO		
		00000000G	00	16	0003C	JSB	STR\$ANALYZE_SDESC_R1			
	57		50	DO	00042	MOVL	RO, R7			
14	AE		51	DO	00045	MOVL	R1, 20(SP)			
	56		53	DO	00049	4\$:	MOVL	END_POS, ACTUAL_END	1493	
	52		56	D1	0004C	CMPL	ACTUAL_END, ACTUAL_START		1499	
			07	18	0004F	BGEQ	5\$			
	6E	00000000G	8F	DO	00051	MOVL	#STR\$_ILLSTRSPE, RETURN_STATUS		1500	
	56	10	AE	D1	00058	5\$:	CMPL	IN_LEN, ACTUAL_END	1506	
			0D	18	0005C	BGEQ	6\$			
	6E	00000000G	8F	DO	0005E	MOVL	#STR\$_ILLSTRPOS, RETURN_STATUS		1509	
	56	10	AE	DO	00065	MOVL	IN_LEN, ACTUAL_END		1510	
			0D	11	00069	BRB	7\$		1506	
			56	D5	0006B	6\$:	TSTL	ACTUAL_END	1513	
			09	18	0006D	BGEQ	7\$			
	6E	00000000G	8F	DO	0006F	MOVL	#STR\$_ILLSTRPOS, RETURN_STATUS		1516	
			56	D4	00076	CLRL	ACTUAL_END		1517	
50			01	C1	00078	7\$:	ADDL3	#1, IN_LEN, RO	1524	
	10		52	50	D1	0007D	CMPL	RO, ACTUAL_START		
			0C	18	00080	BGEQ	8\$			
	6E	00000000G	8F	DO	00082	MOVL	#STR\$_ILLSTRPOS, RETURN_STATUS		1527	
	52		50	DO	00089	MOVL	RO, ACTUAL_START		1528	
			0E	11	0008C	BRB	9\$		1524	
			52	D5	0008E	8\$:	TSTL	ACTUAL_START	1531	
			0A	14	00090	BGTR	9\$			
	6E	00000000G	8F	DO	00092	MOVL	#STR\$_ILLSTRPOS, RETURN_STATUS		1534	
	52		01	DO	00099	MOVL	#1, ACTUAL_START		1535	
	18	AE	020E0000	8F	DO	0009C	9\$:	MOVL	#34471936, TEMP_DESC	1543
			1C	AE	D4	000A4	CLRL	TEMP_DESC+4	1546	
50			56	C3	000A7	SUBL3	ACTUAL_END, IN_LEN, RO		1551	
	10		52	C0	000AC	ADDL2	ACTUAL_START, RO			
			50	9E	000AF	MOVAB	-1(REPC_LEN)[RO], COPY_LENGTH			
	0000FFFF		8F	50	D1	000B4	CMPL	COPY_LENGTH, #65535	1553	
			0A	15	000BB	BLEQ	10\$			
	6E	00000000G	8F	DO	000BD	MOVL	#STR\$_STRTOOLON, RETURN_STATUS		1554	
			0116	31	000C4	BRW	25\$			
	53		50	B0	000C7	10\$:	MOVW	COPY_LENGTH, ALLOC_LENGTH	1557	
	07	00000000G	00	E8	000CA	BLBS	STR\$\$V_INIT, 11\$		1560	
	00000000G		00	FB	000D1	CALLS	#0, STR\$\$INIT			
	50	00000000G	8F	DO	000D8	11\$:	MOVL	#STR\$_NORMAL, RETURN_STATUS		
	00F0		53	B1	000DF	CMPL	ALLOC_LENGTH, #240			
			40	1A	000E4	BGTRU	17\$			
			53	B5	000E6	TSTW	ALLOC_LENGTH			
			04	12	000E8	BNEQ	12\$			

			55	D4	000EA	CLRL	TEMP					
			2F	11	000EC	BRB	16\$					
	51		53	3C	000EE	12\$:	MOVZWL	ALLOC_LENGTH, R1				
			51	D7	000F1	DECL	R1					
	51		07	8A	000F3	BICB2	#7, R1					
	58	00000000G	00	41	9E	000F6	MOVAB	STR\$\$Q SHORT Q[R1], REMQUE_ADDR				
	55		00	BB	0F	000FE	13\$:	REMQUE	@0(REMQUE_ADDR), TEMP			
			05	1D	00102	BVS	14\$					
	54		01	DO	00104	MOVL	#1, ALLOC_DONE					
			0C	11	00107	BRB	15\$					
			54	D4	00109	14\$:	CLRL	ALLOC_DONE				
	7E		00	53	3C	0010B	MOVZWL	ALLOC_LENGTH, -(SP)				
	00	00000000G	05	01	FB	0010E	CALLS	#1, STR\$\$ALOC_SHORT				
	2C		27	54	E8	00115	15\$:	BLBS	ALLOC_DONE, 18\$			
			2C	50	E9	00118	BLBC	RETURN_STATUS, 19\$				
				E1	11	0011B	BRB	13\$				
	1C		AE	50	E9	0011D	16\$:	BLBC	RETURN_STATUS, 19\$			
				55	DO	00120	MOVL	TEMP, TEMP_DESC+4				
				1D	11	00124	BRB	18\$				
				AE	9F	00126	17\$:	PUSHAB	TEMP_DESC+4			
	0C		AE	53	3C	00129	MOVZWL	ALLOC_LENGTH, 12(SP)				
				AE	9F	0012D	PUSHAB	12(SP)				
	00	00000000G	09	02	FB	00130	CALLS	#2, LIB\$GET_VM				
	50		09	50	E8	00137	BLBS	RETURN_STATUS, 18\$				
			50	00000000G	8F	DO	0013A	MOVL	#STR\$_INSVIRMEM, RETURN_STATUS			
				04	11	00141	BRB	19\$				
	18		AE	53	B0	00143	18\$:	MOVW	ALLOC_LENGTH, TEMP_DESC			
			58	50	DO	00147	19\$:	MOVL	RETURN_STATUS, STATUS			
			03	50	E8	0014A	BLBS	RETURN_STATUS, 20\$				
				008A	31	0014D	BRW	24\$				
				52	D7	00150	20\$:	DECL	R2			
1C	BE		OC	BE	52	28	00152	MOVC3	R2, @IN_ADDR, @TEMP_DESC+4			
	63		14	BE	57	28	00158	MOVC3	REPL_LEN, @REPL_ADDR, (NEW_POINTER)			
	50		10	AE	56	C3	0015D	SUBL3	ACTUAL_END, IN_LEN, R0			
				57	OC	AE	DO	00162	MOVL	IN_ADDR, R7		
	63			6647	50	28	00166	MOVC3	R0, (ACTUAL_END)[R7], (NEW_POINTER)			
				52	1C	AE	DO	0016B	MOVL	TEMP_DESC+4, R2		
				51	18	AE	3C	0016F	MOVZWL	TEMP_DESC, R1		
				50	04	AE	DO	00173	MOVL	DEST_DESC, R0		
				58	00000000G	00	16	00177	JSB	STR\$COPY R-R8		
				01	50	DO	0017D	MOVL	R0, STATUS			
				01	58	D1	00180	CMP	STATUS, #1			
					03	13	00183	BEQL	21\$			
				6E	5B	DO	00185	MOVL	STATUS, RETURN_STATUS			
				50	00000000G	8F	DO	00188	21\$:	MOVL	#STR\$NORMAL, RETURN_STATUS	
					1C	AE	D5	0018F	TSTL	TEMP_DESC+4		
					40	13	00192	BEQL	23\$			
				00F0	8F	18	AE	B1	00194	CMPW	TEMP_DESC, #240	
					1C	1A	0019A	BGTRU	22\$			
				51	1C	AE	DO	0019C	MOVL	TEMP_DESC+4, STRING_BLOCK		
				51	FE	A1	3C	001A0	MOVZWL	-2(STRING_BLOCK), ALLOC_LENGTH		
					51	D7	001A4	DECL	R1			
				51	07	8A	001A6	BICB2	#7, R1			
				51	00000000G	00	41	9E	001A9	MOVAB	STR\$\$Q SHORT Q[R1], INSQUE_ADDR	
				00	B1	1C	BE	0E	001B1	INSQUE	@TEMP_DESC+4, @0(INSQUE_ADDR)	
						1C	11	001B6	BRB	23\$		
						1C	AE	9F	001B8	22\$:	PUSHAB	TEMP_DESC+4

1568  
1569  
1574  
1580  
1582  
1590  
1593  
1594  
1599

18	AE	1C	AE	3C	001BB	MOVZWL	TEMP DESC, 24(SP)	
		18	AE	9F	001C0	PUSHAB	24(SP)	
00000000G	00		02	FB	001C3	CALLS	#2, LIB\$FREE VM	
	07		50	E8	001CA	BLBS	RETURN_STATUS, 23\$	
	50	00000000G	8F	D0	001CD	MOVL	#STR\$ FATINTERR, RETURN_STATUS	
	58		50	D0	001D4	23\$:	MOVL	RETURN_STATUS, STATUS
	03		50	E8	001D7	24\$:	BLBS	RETURN_STATUS, 25\$
	6E		58	D0	001DA	25\$:	MOVL	STATUS, RETURN_STATUS
04	10	6E	6E	E8	001DD	26\$:	BLBS	RETURN_STATUS, 26\$
	03		00	ED	001E0		CMPZV	#0, #3, RETURN_STATUS, #4
			09	12	001E5		BNEQ	26\$
			6E	DD	001E7		PUSHL	RETURN_STATUS
00000000G	00		01	FB	001E9		CALLS	#1, LIB\$STOP
	50		8E	D0	001F0	26\$:	MOVL	RETURN_STATUS, R0
	5E		1C	C0	001F3		ADDL2	#28, SP
				05	001F6		RSB	

: Routine Size: 503 bytes. Routine Base: \_STR\$CODE + 0016

: 419	1609	1	
: 420	1610	1	END
: 421	1611	1	
: 422	1612	0	ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	525	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	9	0	581	00:00.8

COMMAND QUALIFIERS

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

STR\$REPLACE  
1-005

E 5  
16-Sep-1984 01:47:28

VAX-11 Bliss-32 V4.0-742

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ST

: Size: 525 code + 0 data bytes  
: Run Time: 00:10.2  
: Elapsed Time: 00:42.6  
: Lines/CPU Min: 9491  
: Lexemes/CPU-Min: 29799  
: Memory Used: 177 pages  
: Compilation Complete

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