


```

SSSSSSSS  TTTTTTTTT  RRRRRRRR  UU      UU  NN  NN  WW  WW  DDDDDDDD  EEEEEEEEE  QQQQQQ
SSSSSSSS  TTTTTTTTT  RRRRRRRR  UU      UU  NN  NN  WW  WW  DDDDDDDD  EEEEEEEEE  QQQQQQ
SS      TT      RR      RR  UU      UU  NN  NN  WW  WW  DD      DD  EE      EE      QQ      QQ
SS      TT      RR      RR  UU      UU  NN  NN  WW  WW  DD      DD  EE      EE      QQ      QQ
SS      TT      RR      RR  UU      UU  NNNN  NN  WW  WW  DD      DD  EE      EE      QQ      QQ
SS      TT      RR      RR  UU      UU  NNNN  NN  WW  WW  DD      DD  EE      EE      QQ      QQ
SSSSSS  TT      RRRRRRRR  UU      UU  NN  NN  NN  WW  WW  DD      DD  EEEEEEEE  QQ      QQ
SSSSSS  TT      RRRRRRRR  UU      UU  NN  NN  NN  WW  WW  DD      DD  EEEEEEEE  QQ      QQ
SS      TT      RR  RR  UU      UU  NN  NN  NNNN  WW  WW  DD      DD  EE      EE      QQ      QQ
SS      TT      RR  RR  UU      UU  NN  NN  NNNN  WW  WW  DD      DD  EE      EE      QQ      QQ
SS      TT      RR  RR  UU      UU  NN  NN  NNNN  WW  WW  DD      DD  EE      EE      QQ      QQ
SS      TT      RR  RR  UU      UU  NN  NN  NNNN  WW  WW  DD      DD  EE      EE      QQ      QQ
SSSSSSSS  TT      RR      RR  UU      UU  NN  NN  NN  WWW  WWW  DD      DD  EE      EE      QQ      QQ
SSSSSSSS  TT      RR      RR  UU      UU  NN  NN  NN  WWW  WWW  DD      DD  EE      EE      QQ      QQ
SSSSSSSS  TT      RR      RR  UUUUUUUUU  NN  NN  WW  WW  DDDDDDDD  EEEEEEEEE  QQQQ  QQ
SSSSSSSS  TT      RR      RR  UUUUUUUUU  NN  NN  WW  WW  DDDDDDDD  EEEEEEEEE  QQQQ  QQ

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SSSSSS
LL      II     SSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```

....
....
....
....

```

1 0001 0 MODULE STR$$UNWDEQ ( ! String dequeuer for unwind
2 0002 0 IDENT = '1-002' ! File: STRUNWDEQ.B32
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: String support library
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains the routine that dequeues interlocked
36 0036 1 strings on unwind.
37 0037 1
38 0038 1 ENVIRONMENT: VAX-11 User mode
39 0039 1
40 0040 1 AUTHOR: John Sauter, CREATION DATE: 30-OCT-1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. JBS 30-OCT-1979
45 0045 1 1-002 - Fix setup for REMQUE. JBS 06-NOV-1979
46 0046 1 --
47 0047 1
48 0048 1 !<BLF/PAGE>

```

```
50 0049 1 |  
51 0050 1 | SWITCHES:  
52 0051 1 |  
53 0052 1 |  
54 0053 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
55 0054 1 |  
56 0055 1 |  
57 0056 1 | LINKAGES:  
58 0057 1 |  
59 0058 1 | NONE  
60 0059 1 |  
61 0060 1 | TABLE OF CONTENTS:  
62 0061 1 |  
63 0062 1 |  
64 0063 1 | FORWARD ROUTINE  
65 0064 1 | STR$$UNWDEQ; ! On unwind, dequeue strings  
66 0065 1 |  
67 0066 1 |  
68 0067 1 | INCLUDE FILES:  
69 0068 1 |  
70 0069 1 |  
71 0070 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Declare PSECTS code  
72 0165 1 |  
73 0166 1 | LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbols  
74 0167 1 |  
75 0168 1 |  
76 0169 1 | MACROS:  
77 0170 1 |  
78 0171 1 | NONE  
79 0172 1 |  
80 0173 1 | EQUATED SYMBOLS:  
81 0174 1 |  
82 0175 1 | NONE  
83 0176 1 |  
84 0177 1 | PSECT DECLARATIONS  
85 0178 1 |  
86 0179 1 | DECLARE_PSECTS (STR); ! Declare psects for STR$ facility  
87 0180 1 |  
88 0181 1 | OWN STORAGE:  
89 0182 1 |  
90 0183 1 | NONE  
91 0184 1 |  
92 0185 1 | EXTERNAL REFERENCES:  
93 0186 1 |  
94 0187 1 |  
95 0188 1 | EXTERNAL ROUTINE  
96 0189 1 | LIB$MATCH_COND; ! Match a condition code  
97 0190 1 |  
98 0191 1 |  
99 0192 1 | +  
100 0193 1 | | The following is the header for the queue of interlocked strings.  
101 0194 1 | |  
102 0195 1 | EXTERNAL  
103 0196 1 | STR$$Q_INTLK : VECTOR [2, LONG];  
104 0197 1 |
```

```

: 106      0198 1 GLOBAL ROUTINE STR$$UNWDEQ (           ! Dequeue strings on UNWIND
: 107      0199 1     SIG,                               ! Signal vector
: 108      0200 1     MECH,                              ! Mechanism vector
: 109      0201 1     ENBL                               ! Enable vector
: 110      0202 1     ) =
: 111      0203 1
: 112      0204 1 +-+
: 113      0205 1 FUNCTIONAL DESCRIPTION
: 114      0206 1
: 115      0207 1     If we are unwinding, free the interlocked strings. The number of such strings
: 116      0208 1     is passed in the enable vector.
: 117      0209 1
: 118      0210 1 FORMAL PARAMETERS:
: 119      0211 1
: 120      0212 1     SIG.rl.a      A counted vector of parameters to LIB$$SIGNAL/STOP
: 121      0213 1     MECH.rl.a    A counted vector of info from CHF
: 122      0214 1     ENBL.ra.a    A counted vector of ENABLE argument addresses
: 123      0215 1
: 124      0216 1 IMPLICIT INPUTS:
: 125      0217 1
: 126      0218 1     NONE
: 127      0219 1
: 128      0220 1 IMPLICIT OUTPUTS:
: 129      0221 1
: 130      0222 1     NONE
: 131      0223 1
: 132      0224 1 COMPLETION CODES:
: 133      0225 1
: 134      0226 1     Always S$$_RESIGNAL, which is ignored when unwinding.
: 135      0227 1
: 136      0228 1 SIDE EFFECTS:
: 137      0229 1
: 138      0230 1     Removes entries from the string interlock queue.
: 139      0231 1
: 140      0232 1 --
: 141      0233 1
: 142      0234 2 BEGIN
: 143      0235 2
: 144      0236 2 BUILTIN
: 145      0237 2 REMQUE;
: 146      0238 2
: 147      0239 2 MAP
: 148      0240 2     SIG : REF VECTOR,
: 149      0241 2     MECH : REF VECTOR,
: 150      0242 2     ENBL : REF VECTOR;
: 151      0243 2
: 152      0244 2 +-+
: 153      0245 2 Only dequeue if this is the UNWIND condition.
: 154      0246 2 -
: 155      0247 2
: 156      0248 2     IF ( NOT (LIB$MATCH_COND (SIG [1], %REF (S$$_UNWIND)))) THEN RETURN (S$$_RESIGNAL);
: 157      0249 2
: 158      0250 2 +-+
: 159      0251 2 Remove interlock control blocks from the string interlock queue.
: 160      0252 2 -
: 161      0253 2
: 162      0254 2     INCR COUNTER FROM 1 TO ..ENBL [1] DO
```

```

: 163      0255      3      BEGIN
: 164      0256      3
: 165      0257      3      LOCAL
: 166      0258      3      REMQUE_ADDR,
: 167      0259      3      JUNK;
: 168      0260      3
: 169      0261      3      REMQUE_ADDR = STR$$Q INTLK [1];
: 170      0262      3      REMQUE(..REMQUE_ADDR, JUNK);
: 171      0263      3      END;
: 172      0264      3
: 173      0265      3      RETURN (SS$_RESIGNAL);
: 174      0266      3      END;

```

! End of STR\$\$UNWDEQ

```

.TITLE STR$$UNWDEQ
.IDENT \1-002\
.EXTRN LIB$MATCH_COND, STR$$Q_INTLK
.PSECT _STR$CODE, NOWRT, SHR, PIC, 2

```

```

: 000C 0000
7E      0920      8F      3C      00002
: 5E      DD      00007
7E      04      AC      04      C1      00009
: 00000000G 00      02      FB      0000E
: 1B      50      E9      00015
: 50      0C      AC      D0      00018
: 53      04      B0      D0      0001C
: 52      D4      00020
: 0B      11      00022
: 51 00000000G 00      9E      00024 1$:
: 50      00      B1      0F      0002B
F1      52      53      F3      0002F 2$:
: 50      0918      8F      3C      00033 3$:
: 04      00038

```

```

.ENTRY STR$$UNWDEQ, Save R2,R3 : 0198
MOVZWL #2336, -(SP) : 0248
PUSHL SP
ADDL3 #4, SIG, -(SP)
CALLS #2, LIB$MATCH_COND
BLBC R0, 3$
MOVL ENBL, R0 : 0254
MOVL @4(R0), R3
CLRL COUNTER
BRB 2$
MOVAB STR$$Q INTLK+4, REMQUE_ADDR : 0261
REMQUE @0(REMQUE_ADDR), JUNK : 0262
AOBLEQ R3, COUNTER, 1$ : 0254
MOVZWL #2328, R0 : 0265
RET : 0266

```

: Routine Size: 57 bytes, Routine Base: _STR\$CODE + 0000

```

: 175      0267      1
: 176      0268      1 END
: 177      0269      1
: 178      0270      0 ELUDOM

```

!End of module STR\$\$UNWDEQ

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	57	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

