


```

1 0001 0 MODULE STRSSUNWDEQ ( ! 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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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>

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```
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 |     STRSSUNWDEQ;                                ! 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 STRS 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 |     LIBSMATCH_COND;                            ! Match a condition code
97 0190 1 |
98 0191 1 |
99 0192 1 | !+ The following is the header for the queue of interlocked strings.
100 0193 1 | !-
101 0194 1 |
102 0195 1 | EXTERNAL
103 0196 1 |     STRSSQ_INTLK : VECTOR [2, LONG];
104 0197 1 |
```

```
0198 1 GLOBAL ROUTINE STR$$UNWDEQ (           ! Dequeue strings on UNWIND
0199 1     SIG,                               ! Signal vector
0200 1     MECH,                              ! Mechanism vector
0201 1     ENBL                             ! Enable vector
0202 1   ) =
0203 1
0204 1  +-+
0205 1  FUNCTIONAL DESCRIPTION
0206 1
0207 1     If we are unwinding, free the interlocked strings.  The number of such strings
0208 1     is passed in the enable vector.
0209 1
0210 1  FORMAL PARAMETERS:
0211 1
0212 1     SIG.rl.a      A counted vector of parameters to LIB$$SIGNAL/STOP
0213 1     MECH.rl.a    A counted vector of info from CHF
0214 1     ENBL.ra.a   A counted vector of ENABLE argument addresses
0215 1
0216 1  IMPLICIT INPUTS:
0217 1
0218 1     NONE
0219 1
0220 1  IMPLICIT OUTPUTS:
0221 1
0222 1     NONE
0223 1
0224 1  COMPLETION CODES:
0225 1
0226 1     Always S$$_RESIGNAL, which is ignored when unwinding.
0227 1
0228 1  SIDE EFFECTS:
0229 1
0230 1     Removes entries from the string interlock queue.
0231 1
0232 1  --
0233 1
0234 1  BEGIN
0235 1
0236 1  BUILTIN
0237 1  REMQUE:
0238 1
0239 1  MAP
0240 1  SIG : REF VECTOR,
0241 1  MECH : REF VECTOR,
0242 1  ENBL : REF VECTOR;
0243 1
0244 1  +-+
0245 1  Only dequeue if this is the UNWIND condition.
0246 1  -
0247 1
0248 1  IF ( NOT (LIB$MATCH_COND (SIG [1], %REF (S$$_UNWIND))) ) THEN RETURN (S$$_RESIGNAL);
0249 1
0250 1  +-+
0251 1  Remove interlock control blocks from the string interlock queue.
0252 1  -
0253 1
0254 1  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$$UNWDEQ, Save R2,R3 : 0198
MOVZWL #2336, -(SP) : 0248
PUSHL SP
ADDL3 #4, SIG, -(SP)
CALLS #2, LIB$MATCH_COND
BLBC R0, 3$
: 0254
MOVL ENBL, R0
MOVL @4(R0), R3
CLRL COUNTER
BRB 2$
MOVAB STR$$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)

