```
LLL                  IIIIIIIII    BBBBBBBBBBBB    RRRRRRRRRRRR    TTTTTTTTTTTTTTT  LLL
LLL                  IIIIIIIII    BBBBBBBBBBBB    RRRRRRRRRRRR    TTTTTTTTTTTTTTT  LLL
LLL                  IIIIIIIII    BBBBBBBBBBBB    RRRRRRRRRRRR    TTTTTTTTTTTTTTT  LLL
LLL                     III       BBB      BBB    RRR      RRR          TTT        LLL
LLL                     III       BBB      BBB    RRR      RRR          TTT        LLL
LLL                     III       BBB      BBB    RRR      RRR          TTT        LLL
LLL                     III       BBB      BBB    RRR      RRR          TTT        LLL
LLL                     III       BBB      BBB    RRR      RRR          TTT        LLL
LLL                     III       BBBBBBBBBBBB    RRRRRRRRRRRR          TTT        LLL
LLL                     III       BBBBBBBBBBBB    RRRRRRRRRRRR          TTT        LLL
LLL                     III       BBB      BBB    RRR  RRR              TTT        LLL
LLL                     III       BBB      BBB    RRR  RRR              TTT        LLL
LLL                     III       BBB      BBB    RRR   RRR             TTT        LLL
LLL                     III       BBB      BBB    RRR    RRR            TTT        LLL
LLL                     III       BBB      BBB    RRR     RRR           TTT        LLL
LLLLLLLLLLLLLLL         IIIIIIIII  BBBBBBBBBBBB    RRR      RRR          TTT        LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLL         IIIIIIIII  BBBBBBBBBBBB    RRR      RRR          TTT        LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLL         IIIIIIIII  BBBBBBBBBBBB    RRR      RRR          TTT        LLLLLLLLLLLLLLL
```

STRCHESTA

LIS

```
    1    0001  0  %TITLE 'STR$$CHECK_STATUS -Check status and convert to STR$ status'
    2    0002  0  MODULE STR$$CHECK_STATUS ( ! Check status and convert to STR$ status
    3    0003  0
    4    0004  0                  IDENT = '1-003' ! File: STRCHESTA.B32 Edit: RKR1003
    5    0005  0
    6    0006  0                      ) =
    7    0007  1  BEGIN
    8    0008  1  !
    9    0009  1  !********************************************************************
   10    0010  1  !*                                                                  *
   11    0011  1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                         *
   12    0012  1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.          *
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   19    0019  1  !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
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   21    0021  1  !*                                                                  *
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   23    0023  1  !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
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   28    0028  1  !*                                                                  *
   29    0029  1  !*                                                                  *
   30    0030  1  !********************************************************************
   31    0031  1  !
   32    0032  1
   33    0033  1  !++
   34    0034  1  ! FACILITY:      String support library
   35    0035  1  !
   36    0036  1  ! ABSTRACT:
   37    0037  1  !
   38    0038  1  !       This module contains a single routine which inspects the
   39    0039  1  !       incoming status ( usually a LIB$ or SS$ status) and converts
   40    0040  1  !       it into the appropriate STR$ status.  If it is one of the
   41    0041  1  !       fatal LIB$ statuses, the corresponding STR$ status gets
   42    0042  1  !       signalled.
   43    0043  1  !       Unrecognized statuses are left alone.
   44    0044  1  !
   45    0045  1  ! ENVIRONMENT:  Runs at any access mode - AST reentrant
   46    0046  1  !
   47    0047  1  ! AUTHOR: R. Reichert, CREATION DATE: 3-MAY-1981
   48    0048  1  !
   49    0049  1  ! MODIFIED BY:
   50    0050  1  !
   51    0051  1  ! 1-001 - Original.  RKR 3-MAY-1981
   52    0052  1  ! 1-002 - Revise what error statuses get signaled. RKR 3-SEP-1981.
   53    0053  1  ! 1-003 - Add explicit external declaration for LIB$STOP.
   54    0054  1  !         RKR 4-NOV-1981.
   55    0055  1  !
   56    0056  1  !--
   57    0057  1
```

```
   59        0058  1  %SBTTL 'Declarations'
   60        0059  1  !
   61        0060  1  ! SWITCHES:
   62        0061  1  !
   63        0062  1
   64        0063  1  SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL,
   65        0064  1                            NONEXTERNAL = WORD_RELATIVE);
   66        0065  1  !
   67        0066  1  ! LINKAGES:
   68        0067  1  !
   69        0068  1  REQUIRE 'RTLIN:STRLNK';               ! The linkage declarations
   70        0253  1  !
   71        0254  1  ! TABLE OF CONTENTS:
   72        0255  1  !
   73        0256  1
   74        0257  1  FORWARD ROUTINE
   75        0258  1      STR$$CHECK_STATUS_R2 : STR$$CHECK_STATUS_LINKAGE;
   76        0259  1
   77        0260  1  !
   78        0261  1  ! INCLUDE FILES:
   79        0262  1  !
   80        0263  1
   81        0264  1  LIBRARY 'RTLSTARLE';                  ! System symbols, typically from
   82        0265  1                                        ! SYS$LIBRARY:STARLET.L32
   83        0266  1  REQUIRE 'RTLIN:RTLPSECT';             ! Define PSECT declarations macros
   84        0361  1  !
   85        0362  1  ! MACROS:
   86        0363  1  !
   87        0364  1        NONE
   88        0365  1  !
   89        0366  1  ! EQUATED SYMBOLS:
   90        0367  1  !
   91        0368  1        NONE
   92        0369  1  !
   93        0370  1  ! FIELDS:
   94        0371  1  !
   95        0372  1        NONE
   96        0373  1  !
   97        0374  1  ! PSECTS:
   98        0375  1  !
   99        0376  1  DECLARE_PSECTS (STR);                 ! Declare psects for STR$ facility
  100        0377  1  ! OWN STORAGE:
  101        0378  1  !
  102        0379  1        NONE
  103        0380  1  !
  104        0381  1  ! EXTERNAL REFERENCES:
  105        0382  1  !
  106        0383  1
  107        0384  1  EXTERNAL ROUTINE
  108        0385  1        LIB$STOP;                       ! to signal errors
  109        0386  1
  110        0387  1  EXTERNAL LITERAL                      ! Condition value symbols
  111        0388  1        LIB$_INSVIRMEM,                 ! Insufficient virtual memory
  112        0389  1        LIB$_INVSTRDES,                 ! Invalid string descriptor
  113        0390  1        LIB$_INVARG,                    ! Invalid argument
  114        0391  1        LIB$_STRTRU,                    ! String truncated
  115        0392  1        LIB$_WRONUMARG,                 ! Wrong number of arguments
```

I 16

STR$CHECK_STAT STR$CHECK_STATUS —Check status and convert to   16-Sep-1984 01:31:12   VAX-11 Bliss-32 V4.0-742   Page 3
1-003   Declarations   14-Sep-1984 12:40:01   [LIBRTL.SRC]STRCHESTA.B32;1   (2)

```
:   116        0393  1            STR$_NORMAL,              ! Success
:   117        0394  1            STR$_INSVIRMEM,           ! Insufficient virtual memory
:   118        0395  1            STR$_ILLSTRCLA,           ! Illegal string class
:   119        0396  1            STR$_TRU,                 ! Truncation
:   120        0397  1            STR$_WRONUMARG;           ! Wrong number of arguments
:   121        0398  1
```

```
123        0399   1  %SBTTL 'STR$$CHECK_STATUS_R2 - Check Status'
124        0400   1  GLOBAL ROUTINE STR$$CHECK_STATUS_R2 (     ! Check status
125        0401   1
126        0402   1          IN_STATUS
127        0403   1
128        0404   1                                        ) : STR$$CHECK_STATUS_LINKAGE =
129        0405   1
130        0406   1  !++
131        0407   1  ! FUNCTIONAL DESCRIPTION:
132        0408   1  !
133        0409   1  !       This routine inspects the incoming status.  If it is one of
134        0410   1  !       a recognized set of fatal LIB$ statuses, the corresponding
135        0411   1  !       STR$ status is signalled.  Some LIB$ statuses are converted
136        0412   1  !       to the corresponding STR$ status.  If the status is unkown,
137        0413   1  !       it is simply returned.
138        0414   1  !
139        0415   1  ! CALLING SEQUENCE:
140        0416   1  !
141        0417   1  !       STR$$CHECK_STATUS_R2 ( IN_STATUS.rlc.v )
142        0418   1  !
143        0419   1  ! FORMAL PARAMETERS:
144        0420   1  !
145        0421   1  !       IN_STATUS.rlc.v          The input status
146        0422   1  !
147        0423   1  ! IMPLICIT INPUTS:
148        0424   1  !
149        0425   1  !       NONE
150        0426   1  !
151        0427   1  ! IMPLICIT OUTPUTS:
152        0428   1  !
153        0429   1  !       NONE
154        0430   1  !
155        0431   1  ! COMPLETION STATUS:
156        0432   1  !
157        0433   1  !       OUT_STATUS.wlc.v         The output status
158        0434   1  !
159        0435   1  !
160        0436   1  ! SIDE EFFECTS:
161        0437   1  !
162        0438   1  !       If it finds IN_STATUS to be LIB$_INSVIRMEM, LIB$_INVSTRDES,
163        0439   1  ! LIB$_WRONUMARG or LIB$_INVARG it signals the corresponding STR$
164        0440   1  ! condition code.
165        0441   1  !
166        0442   1  !--
167        0443   1
168        0444   2      BEGIN
169        0445   2
170        0446   2      LOCAL
171        0447   2          OUT_STATUS ;              ! the status returned
172        0448   2
173        0449   3      OUT_STATUS = (SELECTONE .IN_STATUS OF
174        0450   3          SET
175        0451   3              [SS$_NORMAL,
176        0452   3               STR$_NORMAL]:        .IN_STATUS ; ! most common first
177        0453   3
178        0454   3              [LIB$_STRTRU]:        STR$_TRU ;   ! next most common
179        0455   3
```

```
; 180    0456 3              [LIB$_INSVIRMEM]:     LIB$STOP (STR$_INSVIRMEM) ; !least
; 181    0457 3              [LIB$_INVSTRDES]:     LIB$STOP (STR$_ILLSTRCLA) ; ! common
; 182    0458 3              [LIB$_INVARG]:        LIB$STOP (STR$_ILLSTRCLA) ;
; 183    0459 3              [LIB$_WRONUMARG]:     LIB$STOP (STR$_WRONUMARG) ;
; 184    0460 3
; 185    0461 3              [OTHERWISE]:          .IN_STATUS ;            ! unlikely
; 186    0462 2        TES );
; 187    0463 2   RETURN OUT_STATUS;
; 188    0464 1   END;        ! End of routine STR$$CHECK_STATUS_R2
```

```
                                         .TITLE   STR$$CHECK_STATUS STR$$CHECK_STATUS -Check stat
;                                                          us and convert to
                                         .IDENT   \1-003\

                                         .EXTRN   LIB$STOP, LIB$_INSVIRMEM
                                         .EXTRN   LIB$_INVSTRDES, LIB$_INVARG
                                         .EXTRN   LIB$_STRTRU, LIB$_WRONUMARG
                                         .EXTRN   STR$_NORMAL, STR$_INSVIRMEM
                                         .EXTRN   STR$_ILLSTRCLA, STR$_TRU
                                         .EXTRN   STR$_WRONUMARG

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

                    52            50  D0 00000 STR$$CHECK_STATUS_R2::
                                               MOVL     R0, R2                           ; 0400
                                  01  52  D1 00003    CMPL     IN_STATUS, #1             ; 0451
                                      5C  13 00006    BEQL     6$
          00000000G 8F            52  D1 00008    CMPL     IN_STATUS, #STR$_NORMAL
                                      53  13 0000F    BEQL     6$
          00000000G 8F            52  D1 00011    CMPL     IN_STATUS, #LIB$_STRTRU       ; 0454
                                  08  12 00018    BNEQ     1$
       50 00000000G 8F            D0 0001A    MOVL     #STR$_TRU, OUT_STATUS
                                  05 00021    RSB
          00000000G 8F            52  D1 00022 1$:  CMPL     IN_STATUS, #LIB$_INSVIRMEM  ; 0456
                                  08  12 00029    BNEQ     2$
          00000000G            8F  DD 0002B    PUSHL    #STR$_INSVIRMEM
                                  29  11 00031    BRB      5$
          00000000G 8F            52  D1 00033 2$:  CMPL     IN_STATUS, #LIB$_INVSTRDES  ; 0457
                                  09  13 0003A    BEQL     3$
          00000000G 8F            52  D1 0003C    CMPL     IN_STATUS, #LIB$_INVARG       ; 0458
                                  08  12 00043    BNEQ     4$
          00000000G            8F  DD 00045 3$:  PUSHL    #STR$_ILLSTRCLA
                                  0F  11 0004B    BRB      5$
          00000000G 8F            52  D1 0004D 4$:  CMPL     IN_STATUS, #LIB$_WRONUMARG  ; 0459
                                  0E  12 00054    BNEQ     6$
          00000000G            8F  DD 00056    PUSHL    #STR$_WRONUMARG
          00000000G 00            01  FB 0005C 5$:  CALLS    #1, LIB$STOP
                                  05 00063    RSB
                    50            52  D0 00064 6$:  MOVL     IN_STATUS, OUT_STATUS       ; 0461
                                  05 00067    RSB                                        ; 0464
```

; Routine Size: 104 bytes,   Routine Base: _STR$CODE + 0000


```
; 189    0465 1 END          ! End of module STR$$CHECK_STATUS
; 190    0466 1
```

```
L 16
```

; 191   0467 0 ELUDOM

                                  PSECT SUMMARY

;
;
;   Name   Bytes   Attributes
;
; _STR$CODE   104 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

                              Library Statistics

;
;   -------- Symbols --------   Pages   Processing
;   File   Total   Loaded   Percent   Mapped   Time
;
; _255DUA28:[SYSLIB]STARLET.L32;1   9776   1   0   581   00:00.8

;   COMMAND QUALIFIERS

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

; Size: 104 code + 0 data bytes
; Run Time: 00:03.4
; Elapsed Time: 00:16.5
; Lines/CPU Min: 8339
; Lexemes/CPU-Min: 25500
; Memory Used: 50 pages
; Compilation Complete

OTSPKDIVL
LIS

OTSPKDIVS
LIS

STRABMUL
LIS

STRCHESTA
LIS

RTLLIB
LIS

STRAPPEND
LIS

STRARITH
LIS

STRALLOC
LIS

STRANASTR
LIS

STRCOMCAS
LIS

OTSSCOPY
LIS

OTSTERMIO
LIS