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

```
LL             IIIIII    BBBBBBBB    DDDDDDDD    EEEEEEEEEE    CCCCCCCC    OOOOOO    VV      VV  EEEEEEEEEE
LL             IIIIII    BBBBBBBB    DDDDDDDD    EEEEEEEEEE    CCCCCCCC    OOOOOO    VV      VV  EEEEEEEEEE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO  VV      VV  EE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO  VV      VV  EE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO  VV      VV  EE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO  VV      VV  EE
LL               II      BBBBBBBB    DD      DD  EEEEEEEE    CC          OO    OO  VV      VV  EEEEEEEE
LL               II      BBBBBBBB    DD      DD  EEEEEEEE    CC          OO    OO  VV      VV  EEEEEEEE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO  VV      VV  EE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO    VV  VV    EE
LL               II      BB      BB  DD      DD  EE            CC          OO    OO    VV  VV    EE              ....
LLLLLLLLLL     IIIIII    BBBBBBBB    DDDDDDDD    EEEEEEEEEE    CCCCCCCC    OOOOOO      VV      EEEEEEEEEE      ....
LLLLLLLLLL     IIIIII    BBBBBBBB    DDDDDDDD    EEEEEEEEEE    CCCCCCCC    OOOOOO      VV      EEEEEEEEEE      ....
```

```
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
LL               II              SS
LLLLLLLLLL     IIIIII    SSSSSSSS
LLLLLLLLLL     IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE LIB$DEC_OVER (%TITLE'Enable/disable decimal overflow traps'
;     2          0002  0         IDENT = '1-002' ! file: LIBDECOVE.B32   Edit: SBL1002
;     3          0003  0                 ) =
;     4          0004  1 BEGIN
;     5          0005  1
;     6          0006  1 !
;     7          0007  1 !*****************************************************************************
;     8          0008  1 !*                                                                           *
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;    26          0026  1 !*                                                                           *
;    27          0027  1 !*                                                                           *
;    28          0028  1 !*****************************************************************************
;    29          0029  1 !
;    30          0030  1
;    31          0031  1 !++
;    32          0032  1 ! FACILITY:     Utility Library
;    33          0033  1 !
;    34          0034  1 ! ABSTRACT:
;    35          0035  1 !
;    36          0036  1 !       LIB$DEC_OVER enables or disables decimal overflow
;    37          0037  1 !       for the calling procedure activation.  The previous setting
;    38          0038  1 !       of the enable is returned as a value.
;    39          0039  1 !
;    40          0040  1 ! ENVIRONMENT:  User mode, re-entrant, AST level or not or mixed.
;    41          0041  1 !
;    42          0042  1 ! AUTHOR:       Thomas N. Hastings      CREATION DATE: 8-Oct-77
;    43          0043  1 !
;    44          0044  1 ! MODIFIED BY:
;    45          0045  1 !
;    46          0046  1 !       Thomas N. Hastings, 8-Oct-77: VERSION 0
;    47          0047  1 ! 01    -       original
;    48          0048  1 ! 0-2   - REQUIRE LPSECT.  TNH 19-Dec-77
;    49          0049  1 ! 0-03  - Change to STARLET library.  DGP 20-Apr-78
;    50          0050  1 ! 0-04  - Change proper stack frame.  TNH 21-Apr-78
;    51          0051  1 ! 0-05  - Change REQUIRE files for VAX system build.  DGP 28-Apr-78
;    52          0052  1 ! 0-06  - Change STARLET to RTLSTARLE to avoid conflicts.  DGP 1-May-78
;    53          0053  1 ! 0-07  - Change file name to LIBDECOVE.B32, and change the name of
;    54          0054  1 !           the REQUIRE file similarly.  JBS 14-NOV-78
;    55          0055  1 ! 1-001 - Update version number and copyright notice.  JBS 16-NOV-78
;    56          0056  1 ! 1-002 - Use prologue file.  SBL 24-June-1983
;    57          0057  1 !--
```

```
;    58          0058  1
```

```
;    60          0059  1 !
;    61          0060  1 ! PROLOGUE FILE:
;    62          0061  1 !
;    63          0062  1
;    64          0063  1 REQUIRE 'RTLIN:LIBPROLOG';              ! LIB$ definitions
;    65          0134  1
;    66          0135  1 !
;    67          0136  1 ! TABLE OF CONTENTS:
;    68          0137  1 !
;    69          0138  1
;    70          0139  1 FORWARD ROUTINE
;    71          0140  1
;    72          0141  1         LIB$DEC_OVER;                  ! Enable/disable decimal overflow
;    73          0142  1
;    74          0143  1 !
;    75          0144  1 ! MACROS:
;    76          0145  1 !
;    77          0146  1
;    78          0147  1 !
;    79          0148  1 ! EQUATED SYMBOLS:
;    80          0149  1 !
;    81          0150  1
;    82          0151  1 !
;    83          0152  1 ! OWN STORAGE:
;    84          0153  1 !
;    85          0154  1
;    86          0155  1 !
;    87          0156  1 ! EXTERNAL REFERENCES:
;    88          0157  1 !
;    89          0158  1
```

```
;    91          0159  1 GLOBAL ROUTINE LIB$DEC_OVER (    ! Enable/disable decimal overflow
;    92          0160  1         NEW_SETTING)            ! Adr. of longword containing new setting
;    93          0161  1         =                   ! Value is old setting
;    94          0162  1
;    95          0163  1 !++
;    96          0164  1 ! FUNCTIONAL DESCRIPTION:
;    97          0165  1 !
;    98          0166  1 !       LIB$DEC_OVER enables or disables decimal overflow
;    99          0167  1 !       for the calling procedure activation.  The previous setting
;   100          0168  1 !       of the enable is returned as a value.
;   101          0169  1 !
;   102          0170  1 ! FORMAL PARAMETERS:
;   103          0171  1 !
;   104          0172  1 !       new_setting.rlu.r       Adr. of longword containing new enable setting.
;   105          0173  1 !                               Bit 0 = 1 is enable, bit 0 = 0 is disable.
;   106          0174  1 !
;   107          0175  1 ! IMPLICIT INPUTS:
;   108          0176  1 !
;   109          0177  1 !       NONE
;   110          0178  1 !
;   111          0179  1 ! IMPLICIT OUTPUTS:
;   112          0180  1 !
;   113          0181  1 !       NONE
;   114          0182  1 !
;   115          0183  1 ! ROUTINE VALUE:
;   116          0184  1 !
;   117          0185  1 !       OLD_SETTING.wlu.v               previous contents of SRM$W_PSW[PSW$V_DV]
;   118          0186  1 !                                       in the callers frame.
;   119          0187  1 !
;   120          0188  1 ! COMPLETION CODES:
;   121          0189  1 !
;   122          0190  1 !       NONE
;   123          0191  1 !
;   124          0192  1 ! SIDE EFFECTS:
;   125          0193  1 !
;   126          0194  1 !       The callers stack frame will be modified.
;   127          0195  1 !
;   128          0196  1 !--
;   129          0197  1
;   130          0198  2     BEGIN
;   131          0199  2
;   132          0200  2     LOCAL
;   133          0201  2         OLD_SETTING;            ! store the old SETTING of decimal overflow enable
;   134          0202  2     BUILTIN
;   135          0203  2         FP;
;   136          0204  2     MAP
;   137          0205  2         NEW_SETTING: REF VECTOR[1, LONG],       ! Scalar call-by-reference
;   138          0206  2         FP: REF BLOCK[,BYTE];
;   139          0207  2     OLD_SETTING = .FP[SF$V_DV];
;   140          0208  2     FP[SF$V_DV] = .NEW_SETTING[0];
;   141          0209  2     RETURN .OLD_SETTING;
;   142          0210  1     END;                            !End of LIB$DEC_OVER


                                                            .TITLE  LIB$DEC_OVER Enable/disable decimal overflow tr
;                                                                           aps
                                                            .IDENT  \1-002\
```

```
                                                                  .PSECT  _LIB$CODE,NOWRT,  SHR,  PIC,2

                                                  0000 00000      .ENTRY  LIB$DEC_OVER, Save nothing                  ; 0159
        50       04   AE          01          07   EF 00002      EXTZV   #7, #1, 4(FP), OLD_SETTING                  ; 0207
    04  AE            01          07      04   BC   F0 00008      INSV    @NEW_SETTING, #7, #1, 4(FP)                 ; 0208
                                                    04 0000F      RET                                                 ; 0210

; Routine Size:  16 bytes,    Routine Base:  _LIB$CODE + 0000
```

```
;  144          0211  1 END                          !End of module
;  145          0212  0 ELUDOM



;                                  PSECT SUMMARY
;
;       Name                    Bytes                        Attributes
;
;  _LIB$CODE                         16  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)



;                              Library Statistics
;
;                                          -------- Symbols --------      Pages       Processing
;       File                               Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1        9776         1         0        581         00:00.7
;  _$255$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1       36         0         0          8         00:00.1



;                                  COMMAND QUALIFIERS

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

; Size:          16 code + 0 data bytes
; Run Time:         00:02.1
; Elapsed Time:     00:13.6
; Lines/CPU Min:     6144
; Lexemes/CPU-Min:   9913
; Memory Used:  30 pages
; Compilation Complete
```

0205 AH-BT13A-SE
VAX/VMS V4.0

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