```
LLL                 IIIIIIIIII   BBBBBBBBBBBB   RRRRRRRRRRR    TTTTTTTTTTTTTTT   LLL
LLL                 IIIIIIIIII   BBBBBBBBBBBB   RRRRRRRRRRR    TTTTTTTTTTTTTTT   LLL
LLL                 IIIIIIIIII   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       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
LLLLLLLLLLLLLLLL       III       BBBBBBBBBBBB   RRR      RRR         TTT         LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLL    IIIIIIIIII   BBBBBBBBBBBB   RRR      RRR         TTT         LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLL    IIIIIIIIII   BBBBBBBBBBBB   RRR      RRR         TTT         LLLLLLLLLLLLLLL
```

```
LL          IIIIII   BBBBBBBB   DDDDDDD   EEEEEEEEEE   CCCCCCCC   000000    VV      VV   EEEEEEEEEE
LL          IIIIII   BBBBBBBB   DDDDDDD   EEEEEEEEEE   CCCCCCCC   000000    VV      VV   EEEEEEEEEE
LL            II     BB    BB   DD    DD  EE           CC        00    00   VV      VV   EE
LL            II     BB    BB   DD    DD  EE           CC        00    00   VV      VV   EE
LL            II     BB    BB   DD    DD  EE           CC        00    00   VV      VV   EE
LL            II     BBBBBBBB   DD    DD  EEEEEEEE     CC        00    00   VV      VV   EEEEEEEE
LL            II     BBBBBBBB   DD    DD  EEEEEEEE     CC        00    00   VV      VV   EEEEEEEE
LL            II     BB    BB   DD    DD  EE           CC        00    00   VV      VV   EE
LL            II     BB    BB   DD    DD  EE           CC        00    00   VV      VV   EE
LL            II     BB    BB   DD    DD  EE           CC        00    00    VV    VV    EE
LLLLLLLLLL  IIIIII   BBBBBBBB   DDDDDDD   EEEEEEEEEE   CCCCCCCC   000000      VV  VV     EEEEEEEEEE       ....
LLLLLLLLLL  IIIIII   BBBBBBBB   DDDDDDD   EEEEEEEEEE   CCCCCCCC   000000       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  !*                                                                 *
   9    0009  1  !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                        *
  10    0010  1  !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.         *
  11    0011  1  !*   ALL RIGHTS RESERVED.                                          *
  12    0012  1  !*                                                                 *
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  14    0014  1  !*   ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH LICENSE  AND WITH THE  *
  15    0015  1  !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
  16    0016  1  !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
  17    0017  1  !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
  18    0018  1  !*   TRANSFERRED.                                                   *
  19    0019  1  !*                                                                 *
  20    0020  1  !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
  21    0021  1  !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
  22    0022  1  !*   CORPORATION.                                                   *
  23    0023  1  !*                                                                 *
  24    0024  1  !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
  25    0025  1  !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.        *
  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 LIBSDEC_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  !     LIBSDEC_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 LIBSDEC_OVER


                                                    .TITLE   LIBSDEC_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
```

LIBCVTTPU
LIS

LIBCVTUO
LIS

LIBDAY
LIS

LIBDECOVE
LIS

LIBCVTOU
LIS

LIBCVTPTU
LIS

LIBCVTTPO
LIS

LIBDECODF
LIS

LIBDOCOM
LIS

LIBCVTTPZ
LIS

LIBDATETI
LIS

LIBDELETE
LIS

LIBCVTPTO
LIS

LIBDAYWK
LIS

LIBCVTPTZ
LIS