```
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        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
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
```

FILEID**LIBFAO

```
LL              IIIIII    BBBBBBBB    FFFFFFFFFF    AAAAAA      000000
LL              IIIIII    BBBBBBBB    FFFFFFFFFF    AAAAAA      000000
LL                II      BB      BB  FF            AA    AA    00    00
LL                II      BB      BB  FF            AA    AA    00    00
LL                II      BB      BB  FF            AA    AA    00    00
LL                II      BB      BB  FF            AA    AA    00    00
LL                II      BBBBBBBB    FFFFFFFF      AA    AA    00    00
LL                II      BBBBBBBB    FFFFFFFF      AA    AA    00    00
LL                II      BB      BB  FF            AAAAAAAAAA  00    00
LL                II      BB      BB  FF            AAAAAAAAAA  00    00
LL                II      BB      BB  FF            AA    AA    00    00      ....
LL                II      BB      BB  FF            AA    AA    00    00      ....
LLLLLLLLLL      IIIIII    BBBBBBBB    FF            AA    AA      000000      ....
LLLLLLLLLL      IIIIII    BBBBBBBB    FF            AA    AA      000000      ....

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$SYS_FAO (
;     2          0002  0
;     3          0003  0         IDENT = '1-009'         ! File: LIBFAO.B32 EDIT: RKR1009
;     4          0004  0
;     5          0005  0                 ) =
;     6          0006  1 BEGIN
;     7          0007  1 !
;     8          0008  1 !**************************************************************************
;     9          0009  1 !*                                                                        *
;    10          0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                               *
;    11          0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
;    12          0012  1 !*  ALL RIGHTS RESERVED.                                                   *
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;    17          0017  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
;    18          0018  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
;    19          0019  1 !*  TRANSFERRED.                                                           *
;    20          0020  1 !*                                                                        *
;    21          0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
;    22          0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
;    23          0023  1 !*  CORPORATION.                                                           *
;    24          0024  1 !*                                                                        *
;    25          0025  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
;    26          0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
;    27          0027  1 !*                                                                        *
;    28          0028  1 !*                                                                        *
;    29          0029  1 !**************************************************************************
;    30          0030  1 !
;    31          0031  1
;    32          0032  1 !++
;    33          0033  1 ! FACILITY:  General Library Support
;    34          0034  1 !
;    35          0035  1 ! ABSTRACT:
;    36          0036  1 !
;    37          0037  1 !       This routine calls $FAOL for the caller, returning the
;    38          0038  1 ! resulting string using the semantics of the caller's string.
;    39          0039  1 ! The length of the resultant string is limited to 256 bytes max and
;    40          0040  1 ! truncation may occur.
;    41          0041  1 !
;    42          0042  1 ! ENVIRONMENT:  VAX-11 User Mode
;    43          0043  1 !
;    44          0044  1 ! AUTHOR: R. Reichert, CREATION DATE: 20-SEPT-1979
;    45          0045  1 !
;    46          0046  1 ! MODIFIED BY:
;    47          0047  1 !
;    48          0048  1 ! 1-001 - Original.  RKR 20-SEPT-1979
;    49          0049  1 ! 1-002 - Change name to LIB$SYS_FAO.  RKR 15-OCT-79
;    50          0050  1 ! 1-003 - Change logic for status returned.  Improve comments.
;    51          0051  1 !         RKR 20-OCT-79
;    52          0052  1 ! 1-004 - P1 can be a value parameter with value 0, so the
;    53          0053  1 !          NULLPARAMETER builtin doesn't work on it.  JBS 28-OCT-1979
;    54          0054  1 ! 1-005 - Improve description of routine.  RKR 1-NOV-79
;    55          0055  1 ! 1-006 - Change STR$ codes to LIB$ codes. RKR 22-JAN-1980
;    56          0056  1 ! 1-007 - Enhance to recognize additional classes of string descriptors
;    57          0057  1 !         on output by always getting data into internal buffer and
```

```
;    58          0058  1 !          using LIB$SCOPY_DXDX6 to deliver to caller's buffer.
;    59          0059  1 !          LIB$ANALYZE_SDESC_R3 is used to compute the number of bytes
;    60          0060  1 !          actually copied after the copy operation completes.
;    61          0061  1 !          Change to use LIB$SCOPY_DXDX6 instead of STR$COPY_DX.  This
;    62          0062  1 !          avoids having to change STR$ statuses to LIB$ statuses and
;    63          0063  1 !          eliminates need for a handler.
;    64          0064  1 !          RKR 29-MAY-1981.
;    65          0065  1 !  1-008 - Add special-case code to process string descriptors that
;    66          0066  1 !          "read" like fixed string descriptors.   RKR 7-OCT-1981.
;    67          0067  1 !  1-009 - Redirect jsb's from LIB$ANALYZE_SDESC_R3 to
;    68          0068  1 !          LIB$ANALYZE_SDESC_R2.  Use LIB$SCOPY_R_DX6 to do copying.
;    69          0069  1 !          RKR 18-NOV-1981
;    70          0070  1 !--
;    71          0071  1
;    72          0072  1 !<BLF/PAGE>
```

```
;    74          0073  1 !
;    75          0074  1 ! SWITCHES:
;    76          0075  1 !
;    77          0076  1
;    78          0077  1 SWITCHES ADDRESSING_MODE
;    79          0078  1                 (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;    80          0079  1
;    81          0080  1 !
;    82          0081  1 ! LINKAGES:
;    83          0082  1 !
;    84          0083  1 REQUIRE 'RTLIN:STRLNK'; ! Linkage to LIB$ANALYZE_SDESC_R2
;    85          0268  1 !
;    86          0269  1 ! TABLE OF CONTENTS:
;    87          0270  1 !
;    88          0271  1
;    89          0272  1 FORWARD ROUTINE
;    90          0273  1     LIB$SYS_FAO;                        ! Formated ASCII output
;    91          0274  1
;    92          0275  1 !
;    93          0276  1 ! INCLUDE FILES:
;    94          0277  1 !
;    95          0278  1
;    96          0279  1 REQUIRE 'RTLIN:RTLPSECT';               ! Macros for defining psects
;    97          0374  1
;    98          0375  1 LIBRARY 'RTLSTARLE';                    ! System symbols and macros
;    99          0376  1
;   100          0377  1 !
;   101          0378  1 ! MACROS:
;   102          0379  1 !
;   103          0380  1 !       NONE
;   104          0381  1 !
;   105          0382  1 ! EQUATED SYMBOLS:
;   106          0383  1 !
;   107          0384  1
;   108          0385  1 LITERAL
;   109          0386  1     LOCAL_BUF_SIZE = 256;
;   110          0387  1
;   111          0388  1 !
;   112          0389  1 ! PSECTS:
;   113          0390  1 !
;   114          0391  1 DECLARE_PSECTS (LIB);           ! Declare psects for LIB$ facility
;   115          0392  1
;   116          0393  1 ! OWN STORAGE:
;   117          0394  1 !
;   118          0395  1 !       NONE
;   119          0396  1 !
;   120          0397  1 ! EXTERNAL REFERENCES:
;   121          0398  1 !
;   122          0399  1
;   123          0400  1 EXTERNAL ROUTINE
;   124          0401  1     LIB$ANALYZE_SDESC_R2 : LIB$ANALYZE_SDESC_JSB_LINK, ! Extract length
;   125          0402  1                                                        ! and address of
;   126          0403  1                                                        ! 1st data byte
;   127          0404  1                                                        ! from descriptor
;   128          0405  1     LIB$SCOPY_R_DX6 : STRING_JSB ;              ! Copy string
```

```
;  130          0406  1 GLOBAL ROUTINE LIB$SYS_FAO (                ! Formated ASCII output
;  131          0407  1
;  132          0408  1         CTRSTR,             ! addr of string desc. for ASCII control string
;  133          0409  1         OUTLEN,             ! addr of word in which to store output string
;  134          0410  1                             ! length (Optional)
;  135          0411  1         OUTBUF,             ! addr of output buffer string descriptor
;  136          0412  1         P1                  ! the first of potentially 17 (max) additional
;  137          0413  1                             ! parameters.
;  138          0414  1
;  139          0415  1     ) =
;  140          0416  1
;  141          0417  1 !++
;  142          0418  1 ! FUNCTIONAL DESCRIPTION:
;  143          0419  1 !
;  144          0420  1 !       This routine calls $FAOL for the caller, returning the
;  145          0421  1 ! resulting string using the semantics of the caller's string.  Since
;  146          0422  1 ! output is buffered to an internal buffer which is 256 bytes long,
;  147          0423  1 ! the length of the resultant string is limited to 256 bytes max and
;  148          0424  1 ! truncation may occur.
;  149          0425  1 !
;  150          0426  1 !       See $FAO description
;  151          0427  1 !
;  152          0428  1 ! FORMAL PARAMETERS:
;  153          0429  1 !
;  154          0430  1 !       CTRSTR.rt.dx    addr of string desc. for ASCII control string
;  155          0431  1 !
;  156          0432  1 !       OUTLEN.ww.r     addr of word in which to store output string
;  157          0433  1 !                       length (Optional parameter)
;  158          0434  1 !
;  159          0435  1 !       OUTBUF.wt.dx    addr of output buffer string descriptor
;  160          0436  1 !
;  161          0437  1 !       P1.xx.x         the first of potentially 17 (max)
;  162          0438  1 !                       additional parameters. (Optional parameter)
;  163          0439  1 !
;  164          0440  1 ! For additional description of parameters,
;  165          0441  1 ! see $FAO documentation.
;  166          0442  1 !
;  167          0443  1 ! IMPLICIT INPUTS:
;  168          0444  1 !
;  169          0445  1 !       NONE
;  170          0446  1 !
;  171          0447  1 ! IMPLICIT OUTPUTS:
;  172          0448  1 !
;  173          0449  1 !       NONE
;  174          0450  1 !
;  175          0451  1 ! COMPLETION CODES:
;  176          0452  1 !
;  177          0453  1 !       SS$_NORMAL      Procedure successfully completed
;  178          0454  1 ! From LIB$SCOPY_R_DX6
;  179          0455  1 !       LIB$_STRTRU     Success, but source string truncated
;  180          0456  1 !       LIB$_INSVIRMEM  Insufficient virtual memory
;  181          0457  1 !       LIB$_INVSTRDES  Invalid string descriptor
;  182          0458  1 !       LIB$_INVARG     Invalid argument ( usually an unrecognized
;  183          0459  1 !                       class of descriptor)
;  184          0460  1 ! From $FAOL
;  185          0461  1 !       SS$_BUFFEROVF   Successfully completed, but formatted output
;  186          0462  1 !                       string overflowed the output buffer and has
```

```
;  187          0463  1 !                          been truncated.
;  188          0464  1 !       SS$_BADPARAM       An invalid directive was specified in the FAO
;  189          0465  1 !                          control string.
;  190          0466  1 !
;  191          0467  1 ! SIDE EFFECTS:
;  192          0468  1 !
;  193          0469  1 !       NONE
;  194          0470  1 !
;  195          0471  1 !--
;  196          0472  1
;  197          0473  2     BEGIN
;  198          0474  2
;  199          0475  2     BUILTIN
;  200          0476  2         ACTUALCOUNT,
;  201          0477  2         NULLPARAMETER,
;  202          0478  2         ACTUALPARAMETER;
;  203          0479  2
;  204          0480  2     LOCAL
;  205          0481  2         COPY_STATUS,                ! status from buffer copying
;  206          0482  2         STR_STATUS,                 ! status from $FAOL call
;  207          0483  2         LOCAL_BUFF : VECTOR [LOCAL_BUF_SIZE, BYTE],     ! local buffer
;  208          0484  2         BUFFER_DESC : BLOCK [8, BYTE];          ! desc for local buffer
;  209          0485  2
;  210          0486  2     MAP
;  211          0487  2         OUTBUF : REF BLOCK [, BYTE],
;  212          0488  2         OUTLEN : REF VECTOR [, WORD];
;  213          0489  2
;  214          0490  2 !+
;  215          0491  2 ! Construct a static descriptor to receive the data from the system
;  216          0492  2 ! service call
;  217          0493  2 !-
;  218          0494  2     BUFFER_DESC [DSC$W_LENGTH] = LOCAL_BUF_SIZE;
;  219          0495  2     BUFFER_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
;  220          0496  2     BUFFER_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
;  221          0497  2     BUFFER_DESC [DSC$A_POINTER] = LOCAL_BUFF;
;  222          0498  2
;  223          0499  2 !+
;  224          0500  2 ! Call $FAOL using the appropriate combination of caller's
;  225          0501  2 ! parameters, default parameters and local variables
;  226          0502  2 !-
;  227        P 0503  2     STR_STATUS = $FAOL (CTRSTR = ACTUALPARAMETER (1),
;  228        P 0504  2                         OUTLEN = BUFFER_DESC,
;  229        P 0505  2                         OUTBUF = BUFFER_DESC,
;  230        P 0506  2                         PRMLST = (IF (ACTUALCOUNT () LSSU 4)
;  231          0507  2                                   THEN 0 ELSE P1));
;  232          0508  2 !+
;  233          0509  2 ! Copy internal buffer to caller's buffer, letting LIB$SCOPY_R_DX6
;  234          0510  2 ! worry about its semantics.
;  235          0511  2 !-
;  236          0512  2     COPY_STATUS = LIB$SCOPY_R_DX6 (.BUFFER_DESC [DSC$W_LENGTH],
;  237          0513  2                                    .BUFFER_DESC [DSC$A_POINTER],
;  238          0514  2                                    .OUTBUF) ;
;  239          0515  2
;  240          0516  2 !+
;  241          0517  2 ! If caller supplied optional length parameter, update it.
;  242          0518  2 ! To do this accurately, we need to inspect the resulting descriptor
;  243          0519  2 ! as it appears after the copy.  Get LIB$ANALYZE_SDESC_R2 to do it.
```

```
;  244          0520  2 ! No need to check LIB$ANALYZE_SDESC_R2 status.  If OUTBUF descr
;  245          0521  2 ! was bad, LIB$SCOPY_R_DX6 would have told us about it.
;  246          0522  2 !-
;  247          0523  3     IF (NOT NULLPARAMETER(2))
;  248          0524  2     THEN
;  249          0525  3         BEGIN
;  250          0526  3         LOCAL
;  251          0527  3             OUTBUF_LEN,         ! No. of bytes delivered to caller
;  252          0528  3             OUTBUF_ADDR;        ! Address of 1st data byte of callers
;  253          0529  3                                 ! buffer
;  254          0530  3         IF .OUTBUF [DSC$B_CLASS] GTRU DSC$K_CLASS_D
;  255          0531  3         THEN            ! Use generalized length extraction
;  256          0532  4             BEGIN
;  257          0533  4             LIB$ANALYZE_SDESC_R2 ( .OUTBUF ; OUTBUF_LEN, OUTBUF_ADDR );
;  258          0534  4             END
;  259          0535  4
;  260          0536  3         ELSE            ! Fetch length directly
;  261          0537  3
;  262          0538  3             OUTBUF_LEN = .OUTBUF [DSC$W_LENGTH] ;
;  263          0539  3
;  264          0540  3         OUTLEN [0] = MIN (.BUFFER_DESC [DSC$W_LENGTH], .OUTBUF_LEN) ;
;  265          0541  2         END;
;  266          0542  2 !+
;  267          0543  2 ! At this point we have 2 statuses that we could return to caller.
;  268          0544  2 ! Determine which one is the "most meaningful".
;  269          0545  2 !-
;  270          0546  2     !+
;  271          0547  2     ! If original $FAOL call failed, tell him about that
;  272          0548  2     ! else give him the copy status.
;  273          0549  2     !-
;  274          0550  3     IF NOT .STR_STATUS THEN RETURN (.STR_STATUS)
;  275          0551  2                        ELSE RETURN (.COPY_STATUS) ;
;  276          0552  2
;  277          0553  1     END;                            ! end of LIB$SYS_FAO
```

```
                                                .TITLE  LIB$SYS_FAO
                                                .IDENT  \1-009\

                                                .EXTRN  LIB$ANALYZE_SDESC_R2
                                                .EXTRN  LIB$SCOPY_R_DX6
                                                .EXTRN  SYS$FAOL

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

                                  01FC 00000            .ENTRY  LIB$SYS_FAO, Save R2,R3,R4,R5,R6,R7,R8      ; 0406
                            5E      FEFC  CE   9E 00002         MOVAB   -260(SP), SP                        ;
                              010E0100    8F   DD 00007         PUSHL   #17694976                           ; 0494
                    04  AE          08    AE   9E 0000D         MOVAB   LOCAL_BUFF, BUFFER_DESC+4           ; 0497
                        04                6C   91 00012         CMPB    (AP), #4                            ; 0507
                                          04   1E 00015         BGEQU   1$                                  ;
                                          7E   D4 00017         CLRL    -(SP)                               ;
                                          06   11 00019         BRB     2$                                  ;
                            50          10    AC   9E 0001B 1$:       MOVAB   P1, R0                      ;
                                          50   DD 0001F         PUSHL   R0                                  ;
                                       04     AE   9F 00021 2$:       PUSHAB  BUFFER_DESC                 ;
                                       08     AE   9F 00024           PUSHAB  BUFFER_DESC                 ;
```

```
                        04  AC  DD 00027         PUSHL   4(AP)                        ;
        00000000G  00       04  FB 0002A         CALLS   #4, SYS$FAOL                 ;
                   58       50  D0 00031         MOVL    R0, STR_STATUS               ;
                   57   0C  AC  D0 00034         MOVL    OUTBUF, R7                   ; 0514
                   52       57  D0 00038         MOVL    R7, R2                       ; 0512
                   51   04  AE  D0 0003B         MOVL    BUFFER_DESC+4, R1            ;
                   50       6E  3C 0003F         MOVZWL  BUFFER_DESC, R0              ;
             00000000G      00  16 00042         JSB     LIB$SCOPY_R_DX6              ;
                   53       50  D0 00048         MOVL    R0, COPY_STATUS              ;
                   02       6C  91 0004B         CMPB    (AP), #2                     ; 0523
                            28  1F 0004E         BLSSU   6$                           ;
                        08  AC  D5 00050         TSTL    8(AP)                        ;
                            23  13 00053         BEQL    6$                           ;
                   02   03  A7  91 00055         CMPB    3(R7), #2                    ; 0530
                            0B  1B 00059         BLEQU   3$                           ;
                   50       57  D0 0005B         MOVL    R7, R0                       ; 0533
             00000000G      00  16 0005E         JSB     LIB$ANALYZE_SDESC_R2         ;
                            03  11 00064         BRB     4$                           ; 0530
                   51       67  3C 00066 3$:     MOVZWL  (R7), OUTBUF_LEN             ; 0538
                   50       6E  3C 00069 4$:     MOVZWL  BUFFER_DESC, R0              ; 0540
                   51       50  D1 0006C         CMPL    R0, OUTBUF_LEN               ;
                            03  15 0006F         BLEQ    5$                           ;
                   50       51  D0 00071         MOVL    OUTBUF_LEN, R0               ;
              08   BC       50  B0 00074 5$:     MOVW    R0, @OUTLEN                  ;
                   04       58  E8 00078 6$:     BLBS    STR_STATUS, 7$               ; 0550
                   50       58  D0 0007B         MOVL    STR_STATUS, R0               ; 0551
                                04 0007E         RET                                  ;
                   50       53  D0 0007F 7$:     MOVL    COPY_STATUS, R0              ;
                                04 00082         RET                                  ; 0553

; Routine Size:  131 bytes,    Routine Base:  _LIB$CODE + 0000


;  278          0554  1
;  279          0555  1 END                             ! end of module LIB$SYS_FAO
;  280          0556  1
;  281          0557  0 ELUDOM



;                               PSECT SUMMARY
;
;       Name                    Bytes                   Attributes
;
;  _LIB$CODE                      131  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 10 0 581 00:00.8

; COMMAND QUALIFIERS

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

; Size: 131 code + 0 data bytes
; Run Time: 00:04.4
; Elapsed Time: 00:17.3
; Lines/CPU Min: 7527
; Lexemes/CPU-Min: 31608
; Memory Used: 72 pages
; Compilation Complete

LIBEMODH
LIS

LIBEMODD
LIS

LIBESTEMU
LIS

LIBEF
LIS

LIBEMULAT
LIS

LIBFFS
LIS

LIBFINCVT
LIS

LIBE2AREV
LIS

LIBFAO
LIS

LIBEMODG
LIS

LIBEXTV
LIS

LIBEDIV
LIS

LIBESTABL
LIS

LIBFFC
LIS

LIBEMODF
LIS

LIBEMUL
LIS

LIBFILSCA
LIS

LIBEXTZV
LIS

LIBEBCASC
LIS

LIBFAOL
LIS