LIBRTL

```
SSSSSSSS  TTTTTTTTTT  RRRRRRRR   LL        NN      NN  KK      KK
SSSSSSSS  TTTTTTTTTT  RRRRRRRR   LL        NN      NN  KK      KK
SS            TT      RR    RR   LL        NN      NN  KK      KK
SS            TT      RR    RR   LL        NN      NN  KK      KK
SS            TT      RR    RR   LL        NNNN    NN  KK    KK
SS            TT      RR    RR   LL        NNNN    NN  KK    KK
   SSSSSS     TT      RRRRRRRR   LL        NN NN   NN  KKKKK
   SSSSSS     TT      RRRRRRRR   LL        NN  NN  NN  KKKKK
        SS    TT      RR  RR     LL        NN   NNNN   KK    KK
        SS    TT      RR  RR     LL        NN   NNNN   KK    KK
        SS    TT      RR    RR   LL        NN      NN  KK      KK
        SS    TT      RR    RR   LL        NN      NN  KK      KK   ....
SSSSSSSS      TT      RR      RR LLLLLLLLLL NN     NN  KK      KK   ....
SSSSSSSS      TT      RR      RR LLLLLLLLLL NN     NN  KK      KK   ....

RRRRRRRR  EEEEEEEEEEE   QQQQQQ
RRRRRRRR  EEEEEEEEEEE   QQQQQQ
RR    RR  EE          QQ      QQ
RR    RR  EE          QQ      QQ
RR    RR  EE          QQ      QQ
RRRRRRRR  EEEEEEEEE   QQ      QQ
RRRRRRRR  EEEEEEEEE   QQ      QQ
RR  RR    EE         QQ   QQ  QQ
RR  RR    EE         QQ   QQ  QQ
RR    RR  EE         QQ     QQ
RR    RR  EE         QQ     QQ
RR      RR EEEEEEEEEEE  QQQQ  QQ
RR      RR EEEEEEEEEEE  QQQQ  QQ
```

```
!+
        Require file STRLNK.REQ          Edit: RKR1011

! This file, STRLNK.REQ, defines the linkages to the STR facility,
! and to the routines LIB$SCOPY_R_DX6, LIB$SCOPY_DXDX6, LIB$SFREE1_DD6
! and LIB$ANALYZE_SDESC_R2.
!-
!*************************************************************************
!*                                                                      *
!*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                             *
!*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.              *
!*  ALL RIGHTS RESERVED.                                                *
!*                                                                      *
!*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
!*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE *
!*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER *
!*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
!*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *
!*  TRANSFERRED.                                                        *
!*                                                                      *
!*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *
!*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *
!*  CORPORATION.                                                        *
!*                                                                      *
!*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS *
!*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.             *
!*                                                                      *
!*************************************************************************


!++
! AUTHOR: R. Will,          CREATION DATE: 20-FEB-79

! MODIFIED BY:

! 1-001 - Original.      RW 20-FEB-79
! 1-002 - Add linkages for by ref entry points. RW 15-Mar-79
! 1-003 - Add linkages for GET and FREE JSB entry points.
!         JBS 04-JUN-1979
! 1-004 - Remove PRINT statement, for new BLISS compiler.
!         JBS 02-OCT-1979
! 1-005 - Make $$MOVQ, add LEFT, RIGHT, LEN_EXTR, POS_EXTR.
!         RW  1-Nov-79
! 1-006 - Add POSIT.  RW  1-NOV-79
! 1-007 - Add DUPL CHAR.  RW  7-Nov-79
! 1-008 - Add REPLACE.  RW  3-Dec-79
! 1-009 - Add linkages to LIB$SCOPY_R_DX6, LIB$SCOPY_DXDX6,
!         LIB$SFREE1_DD6, LIB$ANALYZE_SDESC_R3, and
!         STR$$CHECK_STATUS_R2.
!         RKR 3-MAY-1981.
! 1-010 - Add linkage to STR$ANALYZE_SDESC_R2.  RKR 19-OCT-1981.
! 1-011 - Revised linkage to LIB$ANALYZE_SDESC_R2 to not use R3.
!         Revised linkage to STR$ANALYZE_SDESC_R1 to not use R2.
!         RKR 18-NOV-1981.
```

!--

```
!-
! Public linkages.  These begin with STR$.  Private linkages (only used
! within the STR facility) begin with STR$$.
!-

LINKAGE

!+
! JSB interface for routine written in MACRO to do a MOVQ
! arguments are passed in R0 and R1, no other registers are used
!-

    STR$$JSB_MOVQ = JSB (REGISTER = 0, REGISTER = 1) :
                    NOTUSED (2, 3, 4, 5, 6, 7, 8, 9, 10, 11),

!+
! JSB interface for STR$COPY routines.  User is responsible for R2-R8,
! they will be destroyed.  R9, R10 and R11 are not used.
! _DX linkage is for routines called with 2 descriptors.  _R linkage
! is used for routines called with source length and address and
! the destination descriptor.
!-

    STR$JSB_COPY_DX = JSB (REGISTER = 0, REGISTER = 1) :
                    NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                    NOTUSED (9, 10, 11),

    STR$JSB_COPY_R = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2) :
                    NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                    NOTUSED (9, 10, 11),

!+
! JSB interface for STR$LEFT
!-

    STR$JSB_LEFT = JSB (REGISTER  = 0, REGISTER = 1, REGISTER = 2) :
                    NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                    NOTUSED (9, 10, 11),

!+
! JSB interface for STR$RIGHT
!-

    STR$JSB_RIGHT = JSB (REGISTER  = 0, REGISTER = 1, REGISTER = 2) :
                    NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                    NOTUSED (9, 10, 11),

!+
! JSB interface for STR$LEN_EXTR_R8
!-

    STR$JSB_LEN_EXT = JSB
        (REGISTER  = 0, REGISTER = 1, REGISTER = 2, REGISTER = 3) :
                    NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                    NOTUSED (9, 10, 11),

 .+
```

```
!+
! JSB interface for STR$POS_EXTR_R8
!-

    STR$JSB_POS_EXT = JSB
        (REGISTER  = 0, REGISTER = 1, REGISTER = 2, REGISTER = 3) :
                        NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                        NOTUSED (9, 10, 11);
!+
! JSB interface for STR$DUPL_CHAR_R8
!-

    STR$JSB_DUPL_CH = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2):
                        NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
                        NOTUSED (9, 10, 11);
!+
! JSB interface for STR$REPLACE
!-

    STR$JSB_REPLACE = JSB
(REGISTER = 0, REGISTER = 1, REGISTER = 2, REGISTER = 3, REGISTER = 4):
        NOPRESERVE (2, 3, 4, 5, 6, 7, 8)
        NOTUSED (9, 10, 11);
!+
! JSB interface for STR$POSITION_R6
!-

    STR$JSB_POSIT = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2):
                        NOPRESERVE (2, 3, 4, 5, 6)
                        NOTUSED (7, 8, 9, 10, 11);

!+
! JSB interface for STR$GET1_DX and STR$FREE1_DX routines.
!-

    STR$JSB_GETFRE = JSB (REGISTER = 0, REGISTER = 1) :
                        NOPRESERVE (4, 3, 2, 1, 0)
                        NOTUSED (11, 10, 9, 8, 7, 6, 5),


!+
! JSB interface for LIB$SCOPY_R_DX6, LIB$SCOPY_DXDX6 and
! LIB$SFREE1_DD6 routines.
!-

    STRING_JSB = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2) :
                    NOPRESERVE (2, 3, 4, 5, 6)
                    NOTUSED (7, 8, 9, 10, 11),
!+
! JSB interface for LIB$ANALYZE_SDESC_R2 routine.
!-

    LIB$ANALYZE_SDESC_JSB_LINK = JSB ( REGISTER = 0 :
                                    REGISTER = 1, REGISTER = 2) :
                        NOTUSED (3,4,5,6,7,8,9,10,11),
!+
! JSB interface for STR$ANALYZE_SDESC_R1 routine.
```

```
!-

    STR$ANALYZE_SDESC_JSB_LINK = JSB ( REGISTER = 0 ;
                              REGISTER = 0, REGISTER = 1) :
                              NOTUSED (2,3,4,5,6,7,8,9,10,11),
!+
! JSB interface for STR$$CHECK_STATUS_R2 routine.
!-

    STR$$CHECK_STATUS_LINKAGE = JSB ( REGISTER = 0 ) :
                              NOPRESERVE (1, 2)
                              NOTUSED (3, 4, 5, 6, 7, 8 ,9, 10, 11) ;

!       End of file STRLNK.REQ
```

!<

RTLMACB32
REQ

STRMACROS
REQ

RTLODBG
REQ

RTLPSECT
REQ

STRLNK
REQ

RTLMACMAR
MAR

LIBTABMAC
MAR

LIBDEF
FOR

SIGDEF
FOR

LIBABUPCA
LIS

LIBA2EREV
LIS

LIBADDP
LIS

LIBADDX
LIS

LIBANASTR
LIS

LIBASCEBC
LIS

LIBASCTIM
LIS

LIBASNMBX
LIS

LIBASTINP
LIS

LIBATTACH
LIS

LIBBBCCI
LIS

LIBBBSSI
LIS

LIBBINTRE
LIS

LIBCALLG
LIS

LIBCHAR
LIS

LIBCLICAL
LIS