```
RRRRRRRRRRRR    UUU          UUU  NNN          NNN     OOOOOOOOO     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR    UUU          UUU  NNN          NNN     OOOOOOOOO     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR    UUU          UUU  NNN          NNN     OOOOOOOOO     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRR         RRR UUU          UUU  NNN          NNN  OOO         OOO  FFF              FFF
RRR         RRR UUU          UUU  NNN          NNN  OOO         OOO  FFF              FFF
RRR         RRR UUU          UUU  NNN          NNN  OOO         OOO  FFF              FFF
RRR         RRR UUU          UUU  NNNNNN       NNN  OOO         OOO  FFF              FFF
RRR         RRR UUU          UUU  NNNNNN       NNN  OOO         OOO  FFF              FFF
RRR         RRR UUU          UUU  NNNNNN       NNN  OOO         OOO  FFF              FFF
RRRRRRRRRRRR    UUU          UUU  NNN   NNN    NNN  OOO         OOO  FFFFFFFFFFFF     FFFFFFFFFFFF
RRRRRRRRRRRR    UUU          UUU  NNN   NNN    NNN  OOO         OOO  FFFFFFFFFFFF     FFFFFFFFFFFF
RRRRRRRRRRRR    UUU          UUU  NNN   NNN    NNN  OOO         OOO  FFFFFFFFFFFF     FFFFFFFFFFFF
RRR   RRR       UUU          UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR   RRR       UUU          UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR   RRR       UUU          UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR      RRR    UUU          UUU  NNN          NNN  OOO         OOO  FFF              FFF
RRR      RRR    UUU          UUU  NNN          NNN  OOO         OOO  FFF              FFF
RRR      RRR    UUU          UUU  NNN          NNN  OOO         OOO  FFF              FFF
RRR         RRR UUUUUUUUUUUUUUU  NNN          NNN     OOOOOOOOO     FFF              FFF
RRR         RRR UUUUUUUUUUUUUUU  NNN          NNN     OOOOOOOOO     FFF              FFF
RRR         RRR UUUUUUUUUUUUUUU  NNN          NNN     OOOOOOOOO     FFF              FFF
```

```
RRRRRRRR    NN      NN    OOOOOO    DDDDDDDD    EEEEEEEEEE  FFFFFFFFFF
RRRRRRRR    NN      NN    OOOOOO    DDDDDDDD    EEEEEEEEEE  FFFFFFFFFF
RR      RR  NN      NN  OO      OO  DD      DD  EE          FF
RR      RR  NN      NN  OO      OO  DD      DD  EE          FF
RR      RR  NNNN    NN  OO      OO  DD      DD  EE          FF
RR      RR  NNNN    NN  OO      OO  DD      DD  EE          FF
RRRRRRRR    NN  NN  NN  OO      OO  DD      DD  EEEEEEEE    FFFFFFFF
RRRRRRRR    NN  NN  NN  OO      OO  DD      DD  EEEEEEEE    FFFFFFFF
RR  RR      NN    NNNN  OO      OO  DD      DD  EE          FF
RR  RR      NN    NNNN  OO      OO  DD      DD  EE          FF
RR    RR    NN      NN  OO      OO  DD      DD  EE          FF          ....
RR    RR    NN      NN  OO      OO  DD      DD  EE          FF          ....
RR      RR  NN      NN    OOOOOO    DDDDDDDD    EEEEEEEEEE  FF          ....
RR      RR  NN      NN    OOOOOO    DDDDDDDD    EEEEEEEEEE  FF          ....

RRRRRRRR    EEEEEEEEEE    QQQQQQ
RRRRRRRR    EEEEEEEEEE    QQQQQQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RRRRRRRR    EEEEEEEE    QQ      QQ
RRRRRRRR    EEEEEEEE    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  EEEEEEEEEE    QQQQ  QQ
RR      RR  EEEEEEEEEE    QQQQ  QQ
```

```
RUN

LIT
LIT
LIT
LIT
LIT

%IF
LIT
%FI

LIT

%IF
LIT
LIT
%FI

LIT
LIT
LIT
LIT
LIT
LIT

%IF
LIT
%FI

LIT

%IF
LIT
%FI

LIT
LIT
LIT
LIT
LIT

%IF
LIT
%FI

LIT
LIT

%IF
LIT
```

```
Version:      'V04-000'
```



```
++
FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:
      Converts BLISS/VARIANT values into useful names.

ENVIRONMENT:   Transportable BLISS

AUTHOR:        Rich Friday

CREATION DATE: 1978

MODIFIED BY:

      016      KAD00016        Ray Marshall    19-Mar-1984
               Added GERMAN, FRENCH, & ITALIAN.

      015      KAD00015        Keith Dawson    18-Apr-1983
               Made the LN01 conditional the default for vanilla DSR --
                 its value is 0 (no variant supplied).

      014      KAD00014        Keith Dawson    22-Mar-1983
               Asserted the LN01 conditional when DSRPLUS is asserted.

      013      KAD00013        Keith Dawson    20-Mar-1983
               Removed all references to .BIX and .BTC files.

      012      KAD00012        Keith Dawson    07-Mar-1983
               Global edit of all modules. Updated module names, idents,
```

```
!               copyright dates. Changed require files to BLISS library.
!--

!++
!       D E F I N I T I O N   O F  /VARIANT   B I T S
!
!       The bit assignments are as follows:
!
!       Bit  Weight   Meaning
!-------------------------------------------------------------------------
!       --      0     If no /VARIANT is supplied (as for vanilla DSR),
!                     compile with LN01 support. LN01 support is also
!                     implied by the DSRPLUS variant.
!
!        0      1     CLEAR =   Unassigned
!                     SET   =   Unassigned
!
!        1      2     CLEAR =   Normal compile
!                     SET   =   Compile for DSRPLUS
!
!       4-6    16     CLEAR =   English (American) version
!                     SET   =   16 = German (Austrian)
!                               32 = French
!                               48 = Italian
!--

!-------------------------------------------------------------------------
!   This variable (LN01) controls whether or not to compile an LN01-flavored
!   DSR. It is asserted by default, and also whenever DSRPLUS is asserted.
!
!   Modules utilizing LN01 are:
!
!       DOOPTS  NOUT

COMPILETIME
    ln01 =
        ( (%VARIANT EQL 0) OR  %VARIANT/2 )
    ;

!-------------------------------------------------------------------------
!   This variable (DSRPLUS) controls compilation for the DSRPLUS program.
!
!   All modules utilize DSRPLUS.

COMPILETIME
    dsrplus =
        ( %VARIANT/2 )
    ;

!-------------------------------------------------------------------------
!   This variable (FLIP) controls compilation of FLIP features of DSRPLUS.
!   It assures that FLIP features are compiled only on VMS systems.
!
!   Modules utilizing FLIP are many and various.
```

```
RUN

LIT
%IF
LIT
%FI

LIT
LIT
LIT

%IF
LIT
%FI

LIT
LIT
LIT
LIT
LIT
LIT

%IF
LIT
%FI

LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT

%IF
LIT
LIT
%FI

LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT
LIT

%IF
```

```
COMPILETIME
    flip =
        ( %VARIANT/2 AND %BLISS(BLISS32) )
    ;

!-----------------------------------------------------------------------
!       4-6    16      CLEAR =   English (American) version
!                      SET   =   16 = German (Austrian)
!                                32 = French
!                                48 = Italian
COMPILETIME
    German  = ( %VARIANT/16 AND NOT %VARIANT/32 AND NOT %VARIANT/64 ) ;
COMPILETIME
    French  = ( NOT %VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64 ) ;
COMPILETIME
    Italian = ( %VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64 ) ;
!-----------------------------------------------------------------------
!                       End of RNODEF.REQ
```

CONVRT REQ
ECC REQ
FLIPRECS REQ
FNCT REQ
FRMSTK REQ
GETQSC REQ
GNCC REQ
IFSTK REQ
KWITEM REQ
LSTOPS REQ
NDXCLI REQ
NDXRTY REQ
OUTOPT REQ
PHDEF REQ
RUNTAB REQ
DIGIT REQ
FSPACK REQ
NDXXPL REQ
MAXIMA REQ
POOL REQ
RUNHAN REQ
DMDEFS REQ
FFDEFS REQ
GSLUCC REQ
INDEX REQ
NDXLIN REQ
PAGEN REQ
LETTER REQ
NMLST REQ
FOOFIL REQ
GCA REQ
MSG REQ
RNODEF REQ
DSRLIB REQ
FLGT REQ
HCT REQ
IRAC REQ
NDXPOL REQ
PASS REQ
LODEFS REQ
NUMPRM REQ
FOOREC REQ
MSGTXT REQ
NBITS REQ
KC REQ
PDT REQ
RNOMAC REQ
FLIPCHARS REQ
HLC REQ
LSTBTS REQ
OPDEV REQ