```
RRRRRRRRRRR      UUU         UUU  NNN         NNN    000000000      FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN         NNN    000000000      FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN         NNN    000000000      FFFFFFFFFFFFFF   FFFFFFFFFFFFFF
RRR       RRR    UUU         UUU  NNN         NNN    000       000   FFF              FFF
RRR       RRR    UUU         UUU  NNN         NNN    000       000   FFF              FFF
RRR       RRR    UUU         UUU  NNN         NNN    000       000   FFF              FFF
RRR       RRR    UUU         UUU  NNNNNN      NNN    000       000   FFF              FFF
RRR       RRR    UUU         UUU  NNNNNN      NNN    000       000   FFF              FFF
RRR       RRR    UUU         UUU  NNNNNN      NNN    000       000   FFF              FFF
RRRRRRRRRRR      UUU         UUU  NNN   NNN   NNN    000       000   FFFFFFFFFFF      FFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN   NNN   NNN    000       000   FFFFFFFFFFF      FFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN   NNN   NNN    000       000   FFFFFFFFFFF      FFFFFFFFFFF
RRR  RRR         UUU         UUU  NNN      NNNNN     000       000   FFF              FFF
RRR    RRR       UUU         UUU  NNN      NNNNN     000       000   FFF              FFF
RRR    RRR       UUU         UUU  NNN      NNNNN     000       030   FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN    000       000   FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN    000       000   FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN    000       000   FFF              FFF
RRR        RRR   UUUUUUUUUUUUUUU  NNN         NNN    000000000       FFF              FFF
RRR        RRR   UUUUUUUUUUUUUUU  NNN         NNN    000000000       FFF              FFF
RRR        RRR   UUUUUUUUUUUUUUU  NNN         NNN    000000000       FFF              FFF
```

```
DDDDDDDD      SSSSSSSS  RRRRRRRR   LL              IIIIII   BBBBBBBBB
DDDDDDDD      SSSSSSSS  RRRRRRRR   LL              IIIIII   BBBBBBBB
DD      DD   SS         RR      RR  LL                II     BB       BB
DD      DD   SS         RR      RR  LL                II     BB       BB
DD      DD   SS         RR      RR  LL                II     BB       BB
DD      DD   SS         RR      RR  LL                II     BB       BB
DD      DD     SSSSSS   RRRRRRRR   LL                II     BBBBBBBB
DD      DD     SSSSSS   RRRRRRRR   LL                II     BBBBBBBB
DD      DD         SS   RR  RR     LL                II     BB       BB
DD      DD         SS   RR  RR     LL                II     BB       BB
DD      DD         SS   RR   RR    LL                II     BB       BB
DD      DD         SS   RR   RR    LL                II     BB       BB
DDDDDDDD      SSSSSSSS  RR      RR LLLLLLLLLL   IIIIII   BBBBBBBB      ....
DDDDDDDD      SSSSSSSS  RR      RR LLLLLLLLLL   IIIIII   BBBBBBBB      ....
                                                                     ....
                                                                     ....


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
```

Version: 'V04-000'

```
!********************************************************************
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```

```
!++
! FACILITY:     DSR (Digital Standard RUNOFF) / DSRPLUS
!
!  DSRLIB.REQ requires in almost all Require files used by DSR and DSRPLUS.
!  It is used to build both DSRLIB.L-- and DPLLIB.L--, which are used (via
!  a conditionalized LIBRARY statement) by almost all modules in the DSR /
!  DSRPLUS code.
!
!  The remaining REQUIRE statements in the code occur in RNFERM.BLI, which
!  requires MSGTXT.REQ, and in LP1.BLI, which requires RUNTAB.REQ.
!
! ENVIRONMENT: Transportable BLISS
!
! AUTHOR:     Keith Dawson    CREATION DATE:  March 1983
!
! MODIFIED BY:
!
!     008     REM00008       Ray Marshall    4-June-1984
!             Added a SWITCHES declaration to cause the expansion of the
!              .REQ files.
!
!     007     KAD00007       Keith Dawson    9-May-1983
!             Remove support for .DX, .PX.
!
!     006     KAD00006       Keith Dawson    13-Apr-1983
!             Added conditionals on CREFDS, GTOKCC, KEYWORD.
!
!     005     KAD00005       Keith Dawson    7-Apr-1983
!             Added require files GTOKCC, KWTDEF (omitted by accident)
```

```
:
:     004      KAD00004         Keith Dawson     6-Apr-1983
:              Added require files for cross-referencing (KEYWORD, CREFDS),
:                 final-output modifications (PASS).
:
:     003      PER00003         Ron Randall      04-Apr-1983
:              For DSRPLUS:  Added topnote require files (TNREC, TOPNOT).
:
:     002      KAD00002         Keith Dawson     17-Mar-1983
:              Conditionalized 6 DSRPLUS-only Require files on the DSRPLUS
:                 variant.
:--
```

FLC

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MAC

```
LIBRARY 'NXPORT:XPORT';

%IF (%VARIANT/2) %THEN
LIBRARY 'REQ:RNODEFDPL';        ! Define /VARIANT macros
%ELSE
LIBRARY   cQ:RNODEFDSR';        ! Define /VARIANT macros
%FI

SWITCHES LIST (REQUIRE);        ! This declaration causes the remaining files
                                ! to be expanded in the listing
!
! The following files are used by some of the Require files to come.
!
REQUIRE 'REQ:MAXIMA.REQ';       ! Maximum values on some DSR / DSRPLUS parameters.
REQUIRE 'REQ:BPOSIT.REQ';       ! Macro to return the bit position part of a field definition.
REQUIRE 'REQ:CLIST.REQ';        ! CL... (counted list) items
REQUIRE 'REQ:LSTBTS.REQ';       ! BAR__, CND__, ISQ__, & RIT__
REQUIRE 'REQ:NBITS.REQ';        ! More "__" bit definitions for a few flags
REQUIRE 'REQ:PAGEN.REQ';        ! SCT_... and PAGE_DEFINITION macros

REQUIRE 'REQ:ARECCC.REQ';       ! AREC completion codes.
REQUIRE 'REQ:ATCODE.REQ';       ! ATABLE entry codes.

%IF DSRPLUS %THEN
REQUIRE 'REQ:ATTCC.REQ';        ! Completion codes for routines in ATTRIB
%FI

REQUIRE 'REQ:BOOL.REQ';         ! TRUE & FALSE literals (only)
REQUIRE 'REQ:BRNRTY.REQ';       ! .BRN-format binary file record def's.
REQUIRE 'REQ:CLHCC.REQ';        ! CLH_... status return codes
REQUIRE 'REQ:CLHOPS.REQ';       ! CLH_... operation codes
REQUIRE 'REQ:CONVRT.REQ';       ! TCONVRT_... def's (string conversion codes)

%IF DSRPLUS %THEN
REQUIRE 'REQ:CREFDS.REQ';       ! Cross-referencing data structures
%FI

REQUIRE 'REQ:DIGIT.REQ';        ! Macro to test if a character is a digit
!! REQUIRE 'REQ:DMDEFS.REQ';    ! Dynamic-memory management definitions
REQUIRE 'REQ:ECC.REQ';          ! Definitions for the Entity Counter/Caption Area
REQUIRE 'REQ:FFDEFS.REQ';       ! FOO_... opcodes and status values for FOOFIL
REQUIRE 'REQ:FLGT.REQ';         ! FLaG Table items
REQUIRE 'REQ:FLIPCHARS.REQ';    ! FLIPSK_... special characters
REQUIRE 'REQ:FLIPRECS.REQ';     ! FLIP macro, record, & field definitions and MAX_LEVELS.
REQUIRE 'REQ:FNCT.REQ';         ! Footnote control table
REQUIRE 'REQ:FOOREC.REQ';       ! FOOREC_... items (for FN record headers)
REQUIRE 'REQ:FRMSTK.REQ';       ! Codes for .LS & .NT context save stack
REQUIRE 'REQ:FSPACK.REQ';       ! FIXED_STRING structure & FS_... macros
REQUIRE 'REQ:GCA.REQ';          ! GCA (General Control Array) definitions
REQUIRE 'REQ:GETQSC.REQ';       ! GETQ_... Completion codes
REQUIRE 'REQ:GNCC.REQ';         ! Completion codes returned by GNAME.
REQUIRE 'REQ:GSLUCC.REQ';       ! GSLU_... Completion codes

%IF DSRPLUS %THEN
REQUIRE 'REQ:GTOKCC.REQ';       ! GT_... Completion codes
%FI
```

```
REQUIRE 'REQ:HCT.REQ';          !  HCT_... (Heading Control Table) & LAYOUT_...
REQUIRE 'REQ:HLC.REQ';          !  HLC_... (Header Level Control) area items
REQUIRE 'REQ:IFSTK.REQ';        !  IFSTK_... stack for nested .IFs
REQUIRE 'REQ:INDEX.REQ';        !  Structures used by the indexing command
REQUIRE 'REQ:IRAC.REQ';         !  IRAC_... structure Macros & literal
REQUIRE 'REQ:KC.REQ';           !  Definition of macros: KCNS, KCS, & TISF

%IF DSRPLUS %THEN
REQUIRE 'REQ:KEYWORD.REQ';      !  Keyword-table definitions
%FI

REQUIRE 'REQ:KWITEM.REQ';       !  Macros to access command-keyword fields

%IF DSRPLUS %THEN
REQUIRE 'REQ:KWS.REQ';          !  Definitions for the Attribute Keyword Structure
REQUIRE 'REQ:KWSCON.REQ';       !  Definitions for .SEND CONTENTS keywords
REQUIRE 'REQ:KWSTYL.REQ';       !  KWS$... keyword definitions for .STYLE <e|f|t|h>
REQUIRE 'REQ:KWTDEF.REQ';       !  KW$PDP..., KW$PDM keyword definitions for $$entities
REQUIRE 'REQ:KWXPYP.REQ';       !  KWX$... keyword definitions for .XP, .YP, .ENA XP
%FI

REQUIRE 'REQ:LETTER.REQ';       !  Alpha testing and case changing macros
REQUIRE 'REQ:LODEFS.REQ';       !  Literal definitions of LSTOPS operations
REQUIRE 'REQ:MSG.REQ';          !  Macros used in error messages
REQUIRE 'REQ:NDXRTY.REQ';       !  .BIX-format binary file record definitions

%IF DSRPLUS %THEN
REQUIRE 'REQ:NDXXPL.REQ';       !  .XPLUS attribute-structure record definitions
%FI

REQUIRE 'REQ:NMLST.REQ';        !  NMLST_...., NM_...., and NUMBER_LIST
REQUIRE 'REQ:NUMPRM.REQ';       !  NUM_... values returned from GETNUM
REQUIRE 'REQ:OPDEV.REQ';        !  OP_DEV_... literals: type of output device
REQUIRE 'REQ:OUTOPT.REQ';       !  OUTOPT_... output control vector elements
REQUIRE 'REQ:PASS.REQ';         !  PASS_...., EMPH_... definitions for final output
REQUIRE 'REQ:PDT.REQ';          !  PDT_... paragraph definition items
REQUIRE 'REQ:PHDEF.REQ';        !  PHAR_... macros & literal
REQUIRE 'REQ:RNOMAC.REQ';       !  RNO$... command line table items
REQUIRE 'REQ:RUNHAN.REQ';       !  H_... directive literals
REQUIRE 'REQ:SAVE.REQ';         !  Save and Restore definitions
REQUIRE 'REQ:SAVSTK.REQ';       !  Save and Restore stack
REQUIRE 'REQ:SCA.REQ';          !  SCA_... Scanner and translator control items
REQUIRE 'REQ:SETCAS.REQ';       !  Case control literal.
REQUIRE 'REQ:TOCRTY.REQ';       !  TOC record type definitions (MAJ_ & MIN_)

%IF DSRPLUS %THEN
REQUIRE 'REQ:TNFDEFS.REQ';      !  TN_... opcodes and status values for TNFIL
REQUIRE 'REQ:TNREC.REQ';        !  TNREC_... items (for topnote record headers)
REQUIRE 'REQ:TOPNOT.REQ';       !  Topnote control table
%FI

REQUIRE 'REQ:TPROB.REQ';        !  Completion codes returned by TPROBE routine
REQUIRE 'REQ:TSF.REQ';          !  TSF_ (Text so far) macro definitions
REQUIRE 'REQ:VR.REQ';           !  VR_... & VR*_DEF for .VR and conditionals
!! REQUIRE 'REQ:XTNTAB.REQ';    !  In-core index table & entry definitions
```

! End of DSRLIB.REQ

CONVRT
REQ

FRMSTK
REQ

GETQSC
REQ

NDXCLI
REQ

NDXRTY
REQ

ECC
REQ

KWITEM
REQ

PHDEF
REQ

RUNTAB
REQ

FLIPRECS
REQ

FNCT
REQ

GNCC
REQ

IFSTK
REQ

LSTOPS
REQ

OUTOPT
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