```
SSSSSSSSSSSS    000000000    RRRRRRRRRRR    TTTTTTTTTTTTTTT    333333333    222222222
SSSSSSSSSSSS    000000000    RRRRRRRRRRR    TTTTTTTTTTTTTTT    333333333    222222222
SSSSSSSSSSSS    000000000    RRRRRRRRRRR    TTTTTTTTTTTTTTT    333333333    222222222
SSS             000     000  RRR       RRR        TTT          333     333  222      222
SSS             000     000  RRR       RRR        TTT          333     333  222      222
SSS             000     000  RRR       RRR        TTT          333     333  222      222
SSS             000     000  RRR       RRR        TTT                  333           222
SSS             000     000  RRR       RRR        TTT                  333           222
SSS             000     000  RRR       RRR        TTT                  333           222
   SSSSSSSSS    000     000  RRRRRRRRRRR          TTT                  333           222
   SSSSSSSSS    000     000  RRRRRRRRRRR          TTT                  333           222
   SSSSSSSSS    000     000  RRRRRRRRRRR          TTT                  333           222
          SSS   000     000  RRR   RRR            TTT                  333           222
          SSS   000     000  RRR   RRR            TTT                  333           222
          SSS   000     000  RRR   RRR            TTT                  333           222
          SSS   000     000  RRR       RRR        TTT          333     333  222
          SSS   000     000  RRR       RRR        TTT          333     333  222
          SSS   000     000  RRR       RRR        TTT          333     333  222
SSSSSSSSSSSS    000000000    RRR       RRR        TTT          333333333    222222222222222
SSSSSSSSSSSS    000000000    RRR       RRR        TTT          333333333    222222222222222
SSSSSSSSSSSS    000000000    RRR       RRR        TTT          333333333    222222222222222
```

```
SSSSSSSS  FFFFFFFFFF  KK      KK  EEEEEEEEEE  YY      YY  WW      WW  RRRRRRRR  DDDDDDD
SSSSSSSS  FFFFFFFFFF  KK      KK  EEEEEEEEEE  YY      YY  WW      WW  RRRRRRRR  DDDDDDDD
SS        FF          KK    KK    EE            YY    YY  WW      WW  RR    RR  DD    DD
SS        FF          KK  KK      EE            YY    YY  WW      WW  RR    RR  DD    DD
SS        FF          KK KK       EE              YY YY   WW      WW  RR    RR  DD    DD
SS        FF          KK KK       EE              YY YY   WW      WW  RR    RR  DD    DD
  SSSSSS  FFFFFFFF    KKKKK       EEEEEEEE          YY    WW      WW  RRRRRRRR  DD    DD
  SSSSSS  FFFFFFFF    KKKKK       EEEEEEEE          YY    WW      WW  RRRRRRRR  DD    DD
      SS  FF          KK  KK      EE                YY    WW  WW  WW  RR  RR    DD    DD
      SS  FF          KK   KK     EE                YY    WW  WW  WW  RR  RR    DD    DD
      SS  FF          KK    KK    EE                YY    WWWW  WWWW  RR    RR  DD    DD
      SS  FF          KK      KK  EE                YY    WWWW  WWWW  RR    RR  DD    DD
SSSSSSSS  FF          KK      KK  EEEEEEEEEE        YY    WW      WW  RR    RR  DDDDDDDD
SSSSSSSS  FF          KK      KK  EEEEEEEEEE        YY    WW      WW  RR    RR  DDDDDDD
```

```
LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
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
```

```
0001  0    ! File: SFKEYWRD.REQ IDENT = 'V04-000'  ! File: SFKEYWRD.REQ Edit: PDG3006
0002  0
0003  0    !************************************************************************
0004  0    !*                                                                      *
0005  0    !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                            *
0006  0    !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.             *
0007  0    !*   ALL RIGHTS RESERVED.                                               *
0008  0    !*                                                                      *
0009  0    !*   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
0010  0    !*   ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE *
0011  0    !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER *
0012  0    !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
0013  0    !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *
0014  0    !*   TRANSFERRED.                                                        *
0015  0    !*                                                                      *
0016  0    !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *
0017  0    !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *
0018  0    !*   CORPORATION.                                                        *
0019  0    !*                                                                      *
0020  0    !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS *
0021  0    !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.            *
0022  0    !*                                                                      *
0023  0    !*                                                                      *
0024  0    !************************************************************************
0025  0
0026  0
0027  0    !++
0028  0
0029  0    ! FACILITY:      VAX-11 SORT / MERGE
0030  0    !                PDP-11 SORT / MERGE
0031  0    !
0032  0    ! ABSTRACT:
0033  0    !
0034  0    !       Require file to define spec file keywords.
0035  0    !
0036  0    ! ENVIRONMENT:  VAX/VMS user mode
0037  0    !
0038  0    ! AUTHOR: V. Bennison
0039  0    !
0040  0    ! MODIFIED BY:
0041  0    !
0042  0    !       T03-002 Peter D Gilbert
0043  0    !               Add ZONED, change PACKED to PACKED DECIMAL.  PDG 10-Jan-1983
0044  0    !       T03-003 Add CDD_PATH_NAME and PAD.  PDG 8-Feb-1983
0045  0    !       T03-004 Correct spelling of TRAILING_SIGN.  PDG 2-Mar-1983
0046  0    !       T03-005 Change DEC_MULTINATIONAL to MULTINATIONAL.  PDG 13-Apr-1983
0047  0    !       T03-006 Add DTYPE.  19-May-1983
0048  0    !--
```

```
0049  0    ! This require file contains the symbolic names and strings that define the
0050  0    ! PDP-11 SORT/MERGE Version 3.0 specification file keywords.  This file is
0051  0    ! required by module $SFWRD, the specification file keyword module.
0052  0    !
0053  0    ! The text appears in the following format:  under the KEYWORDS MACRO
0054  0    ! definition are a number of sets of two strings.  The first string in
0055  0    ! each set is the symbolic keyword name.  This will be assigned a sequential
0056  0    ! number at compile time.  The second string is the actual keyword used by the
0057  0    ! parser.  Note that some actual keywords may be prefixes of other keywords
0058  0    ! (for example, ASCII and ASCII_FLOATING, LE and LEADING_SIGN).
0059  0    !
0060  0    ! ****** TRANSLATION INSTRUCTIONS ******
0061  0    !
0062  0    ! Specification file keywords for PDP-11 SORT/MERGE may be translated into
0063  0    ! foreign languages.  In order to do this, the keyword string, the second
0064  0    ! string in each of the following sets, should be translated.  $SFWRD may then
0065  0    ! be recompiled using BLISS-16.  PDP-11 SORT/MERGE should then be rebuilt with
0066  0    ! the task-builder.
0067  0    !
0068  0    ! CAUTION - CAUTION - CAUTION - CAUTION - CAUTION - CAUTION - CAUTION
0069  0    !
0070  0    ! ONLY THE KEYWORD  STRING MAY BE TRANSLATED.  IF THE FIRST STRING IN EACH
0071  0    ! SET, THE SYMBOLIC MESSAGE NAME, IS CHANGED, THE PDP-11 SORT/MERGE
0072  0    ! SPECIFICATION FILE PARSER WILL NOT OPERATE CORRECTLY.
0073  0    !
0074  0    ! RESTRICTION:  THE MAXIMUM LENGTH OF ANY KEYWORD IS 256 BYTES.  THIS IS
0075  0    ! BECAUSE THE MESSAGE TEXT MODULE USES THE BLISS %ASCIC FUNCTION TO BUILD
0076  0    ! COUNTED STRINGS.
0077  0    !
0078  0    ! CHANGING THE LENGTH OF THE KEYWORD STRINGS WILL HAVE AN AFFECT ON THE
0079  0    ! SIZE OF THE FINAL TASK.  MANY LONG STRINGS MAY MAKE THE FINAL SORT/MERGE
0080  0    ! TASK LARGER THAN THE TASK ORIGINALLY SHIPPED.
0081  0    !
```

```
0082  0
0083  0      NOTE - THE SYMBOLIC KEYWORD NAME MUST NOT EXCEED 6 BYTES
0084  0
0085  0      PLEASE USE THE EXAMPLE PRESENTED BELOW AS A GUIDE FOR FORMATTING LINES
0086  0
0087  0           'DUMMYA',         'DUMMY MESSAGE FOR FORMATTING GUIDE',
0088  0
0089  0      MACRO
0090  0          KEYWORDS =
0091  0              'PROC',  'PROCESS'               ,  !process
0092  0              'RECD',  'RECORD'                ,  !record sort process
0093  0              'TAG',   'TAG'                   ,  !tag sort process
0094  0              'ADDR',  'ADDRESS'               ,  !address sort process
0095  0              'INDX',  'INDEX'                 ,  !index sort process
0096  0              'STAB',  'STABLE'                ,  !stable
0097  0              'NOST',  'NOSTABLE'              ,  !no stable
0098  0              'CHSQ',  'CHECK_SEQUENCE'        ,  !check sequence
0099  0              'NOCH',  'NOCHECK_SEQUENCE'      ,  !no check sequence
0100  0              'COLL',  'COLLATING_SEQUENCE'    ,  !collating sequence
0101  0              'SEQU',  'SEQUENCE'              ,  !sequence
0102  0              'ASC',   'ASCII'                 ,  !ascii collating sequence
0103  0              'EBC',   'EBCDIC'                ,  !ebcdic
0104  0              'DEC',   'MULTINATIONAL'         ,  !multinational
0105  0              'MODF',  'MODIFICATION'          ,  !modification
0106  0              'IGNO',  'IGNORE'                ,  !ignore
0107  0              'FOLD',  'FOLD'                  ,  !fold
0108  0              'TIEB',  'TIE_BREAK'             ,  !tiebreak
0109  0              'NOTI',  'NOTIE_BREAK'           ,  !no tiebreak
0110  0              'FIEL',  'FIELD'                 ,  !field
0111  0              'NAME',  'NAME'                  ,  !name
0112  0              'SIZE',  'SIZE'                  ,  !size
0113  0              'POSI',  'POSITION'              ,  !position
0114  0              'DIGI',  'DIGITS'                ,  !digits
0115  0              'ASCF',  'ASCII_FLOATING'        ,  !ascii floating data type
0116  0              'ASCZ',  'ASCII_ZONED'           ,  !ascii zone data type
0117  0              'BINA',  'BINARY'                ,  !binary data type
0118  0              'CHAR',  'CHARACTER'             ,  !character
0119  0              'DECI',  'DECIMAL'               ,  !decimal
0120  0              'DIBO',  'DIBOL'                 ,  !dibol
0121  0              'FFLT',  'F_FLOATING'            ,  !f floating
0122  0              'DFLT',  'D_FLOATING'            ,  !d floating
0123  0              'GFLT',  'G_FLOATING'            ,  !g floating
0124  0              'HFLT',  'H_FLOATING'            ,  !h floating
0125  0              'PACK',  'PACKED_DECIMAL'        ,  !packed decimal
0126  0              'ZONE',  'ZONED'                 ,  !zoned
0127  0              'SIGN',  'SIGNED'                ,  !signed
0128  0              'UNSI',  'UNSIGNED'              ,  !unsigned
0129  0              'LEAD',  'LEADING_SIGN'          ,  !leading sign
0130  0              'TRAI',  'TRAILING_SIGN'         ,  !trailing sign
0131  0              'OVER',  'OVERPUNCHED_SIGN'      ,  !overpunched sign
0132  0              'SEPA',  'SEPARATE_SIGN'         ,  !separate sign
0133  0              'INCL',  'INCLUDE'               ,  !include
0134  0              'OMIT',  'OMIT'                  ,  !omit
0135  0              'KEY',   'KEY'                   ,  !key
0136  0              'IF',    'IF'                    ,  !if
0137  0              'THEN',  'THEN'                  ,  !then
0138  0              'ELSE',  'ELSE'                  ,  !else
```

```
: M 0139  0            'ASCE',  'ASCENDING'          ,  !ascending
: M 0140  0            'DESC',  'DESCENDING'         ,  !descending
: M 0141  0            'DATA',  'DATA'               ,  !data
: M 0142  0            'COND',  'CONDITION'          ,  !condition
: M 0143  0            'TEST',  'TEST'               ,  !test
: M 0144  0            'EQ',    'EQ'                 ,  !equal
: M 0145  0            'NE',    'NE'                 ,  !not equal
: M 0146  0            'LE',    'LE'                 ,  !less than or equal
: M 0147  0            'LT',    'LT'                 ,  !less than
: M 0148  0            'GE',    'GE'                 ,  !greater than or equal
: M 0149  0            'GT',    'GT'                 ,  !greater than
: M 0150  0            'AND',   'AND'                ,  !and
: M 0151  0            'OR',    'OR'                 ,  !or
: M 0152  0            'WORK',  'WORK_FILES'         ,  !work_files
: M 0153  0            'CDD',   'CDD_PATH_NAME'      ,  !cdd_path_name
: M 0154  0            'PAD',   'PAD'                ,  !pad
: M 0155  0            'DTYP',  'DTYPE'              ,  !dtype
:   0156  0            'UNKN',  '' %;           ! LAST KEYWORD - DO NOT CHANGE
```

```
:                            COMMAND QUALIFIERS

:        BLISS SRC$:SFKEYWRD/LIS=LIS$:SFKEYWRD/LIB=SRC$:SFKEYWRD

: Run Time:           00:01.1
: Elapsed Time:       00:05.3
: Lines/CPU Min:      8357
: Lexemes/CPU-Min: 14678
: Memory Used:  11 pages
: Library Precompilation Complete
```