```
BBBBBBBBBBBB        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBBBBBBBBBBB        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBBBBBBBBBBB        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBB         BBB   AAA         AAA   SSS          RRR         RRR         TTT        LLL
BBB         BBB   AAA         AAA   SSS          RRR         RRR         TTT        LLL
BBB         BBB   AAA         AAA   SSS          RRR         RRR         TTT        LLL
BBB         BBB   AAA         AAA   SSS          RRR         RRR         TTT        LLL
BBB         BBB   AAA         AAA   SSS          RRR         RRR         TTT        LLL
BBB         BBB   AAA         AAA   SSS          RRR         RRR         TTT        LLL
BBBBBBBBBBBB      AAA         AAA     SSSSSSSSS  RRRRRRRRRRR             TTT        LLL
BBBBBBBBBBBB      AAA         AAA     SSSSSSSSS  RRRRRRRRRRR             TTT        LLL
BBBBBBBBBBBB      AAA         AAA     SSSSSSSSS  RRRRRRRRRRR             TTT        LLL
BBB         BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR               TTT        LLL
BBB         BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR               TTT        LLL
BBB         BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR               TTT        LLL
BBB         BBB   AAA         AAA           SSS  RRR      RRR            TTT        LLL
BBB         BBB   AAA         AAA           SSS  RRR   RRR               TTT        LLL
BBB         BBB   AAA         AAA           SSS  RRR      RRR            TTT        LLL
BBBBBBBBBBBB      AAA         AAA   SSSSSSSSSSS     RRR         RRR      TTT        LLLLLLLLLLLLLLL
BBBBBBBBBBBB      AAA         AAA   SSSSSSSSSSS     RRR         RRR      TTT        LLLLLLLLLLLLLLL
BBBBBBBBBBBB      AAA         AAA   SSSSSSSSSSS     RRR         RRR      TTT        LLLLLLLLLLLLLLL
```

```
BBBBBBBB      AAAAAA      SSSSSSSS  NN      NN    AAAAAA    MM      MM  EEEEEEEEEE    AAAAAA      SSSSSSSS
BBBBBBBB      AAAAAA      SSSSSSSS  NN      NN    AAAAAA    MM      MM  EEEEEEEEEE    AAAAAA      SSSSSSSS
BB      BB  AA      AA  SS        NN      NN  AA      AA  MMMM  MMMM  EE            AA      AA  SS
BB      BB  AA      AA  SS        NN      NN  AA      AA  MMMM  MMMM  EE            AA      AA  SS
BB      BB  AA      AA  SS        NNNN    NN  AA      AA  MM  MM  MM  EE            AA      AA  SS
BB      BB  AA      AA  SS        NNNN    NN  AA      AA  MM  MM  MM  EE            AA      AA  SS
BBBBBBBB    AA      AA    SSSSSS  NN  NN  NN  AA      AA  MM      MM  EEEEEEEE    AA      AA    SSSSSS
BBBBBBBB    AA      AA    SSSSSS  NN  NN  NN  AA      AA  MM      MM  EEEEEEEE    AA      AA    SSSSSS
BB      BB  AAAAAAAAAA          SS  NN    NNNN  AAAAAAAAAA  MM      MM  EE          AAAAAAAAAA          SS
BB      BB  AAAAAAAAAA          SS  NN    NNNN  AAAAAAAAAA  MM      MM  EE          AAAAAAAAAA          SS
BB      BB  AA      AA          SS  NN      NN  AA      AA  MM      MM  EE          AA      AA          SS      ....
BB      BB  AA      AA          SS  NN      NN  AA      AA  MM      MM  EE          AA      AA          SS      ....
BBBBBBBB    AA      AA  SSSSSSSS    NN      NN  AA      AA  MM      MM  EEEEEEEEEE  AA      AA  SSSSSSSS        ....
BBBBBBBB    AA      AA  SSSSSSSS    NN      NN  AA      AA  MM      MM  EEEEEEEEEE  AA      AA  SSSSSSSS        ....

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 BAS$NAME_AS (                          ! Change a file's name
;     2          0002  0                 IDENT = '1-002'               ! File: BASNAMEAS.B32
;     3          0003  0                 ) =
;     4          0004  1 BEGIN
;     5          0005  1 !
;     6          0006  1 !*****************************************************************************
;     7          0007  1 !*                                                                           *
;     8          0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
;     9          0009  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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;    22          0022  1 !*                                                                           *
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;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
;    25          0025  1 !*                                                                           *
;    26          0026  1 !*                                                                           *
;    27          0027  1 !*****************************************************************************
;    28          0028  1 !
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 ! FACILITY:  BASIC-PLUS-2 Miscellaneous
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module implements the BASIC NAME ... AS statement,
;    36          0036  1 !       which renames a file.
;    37          0037  1 !
;    38          0038  1 ! ENVIRONMENT:  VAX-11 User Mode
;    39          0039  1 !
;    40          0040  1 ! AUTHOR: John Sauter, CREATION DATE: 28-FEB-1979
;    41          0041  1 !
;    42          0042  1 ! MODIFIED BY:
;    43          0043  1 !
;    44          0044  1 ! 1-001 - Original.  JBS 28-FEB-1979
;    45          0045  1 ! 1-002 - Use BAS$$STOP_RMS for errors.  JBS 22-AUG-1979
;    46          0046  1 !--
;    47          0047  1
;    48          0048  1 !<BLF/PAGE>
```

```
;    50          0049  1 !
;    51          0050  1 ! SWITCHES:
;    52          0051  1 !
;    53          0052  1
;    54          0053  1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;    55          0054  1
;    56          0055  1 !
;    57          0056  1 ! LINKAGES:
;    58          0057  1 !
;    59          0058  1 !       NONE
;    60          0059  1 !
;    61          0060  1 ! TABLE OF CONTENTS:
;    62          0061  1 !
;    63          0062  1
;    64          0063  1 FORWARD ROUTINE
;    65          0064  1     BAS$NAME_AS : NOVALUE;                  ! Change a file's name
;    66          0065  1
;    67          0066  1 !
;    68          0067  1 ! INCLUDE FILES:
;    69          0068  1 !
;    70          0069  1
;    71          0070  1 REQUIRE 'RTLIN:RTLPSECT';                   ! Macros for defining psects
;    72          0165  1
;    73          0166  1 LIBRARY 'RTLSTARLE';                        ! System definitions
;    74          0167  1
;    75          0168  1 !
;    76          0169  1 ! MACROS:
;    77          0170  1 !
;    78          0171  1 !       NONE
;    79          0172  1 !
;    80          0173  1 ! EQUATED SYMBOLS:
;    81          0174  1 !
;    82          0175  1 !       NONE
;    83          0176  1 !
;    84          0177  1 ! PSECTS:
;    85          0178  1 !
;    86          0179  1 DECLARE_PSECTS (BAS);                       ! Declare psects for BAS$ facility
;    87          0180  1 !
;    88          0181  1 ! OWN STORAGE:
;    89          0182  1 !
;    90          0183  1 !       NONE
;    91          0184  1 !
;    92          0185  1 ! EXTERNAL REFERENCES:
;    93          0186  1 !
;    94          0187  1
;    95          0188  1 EXTERNAL ROUTINE
;    96          0189  1     BAS$$STOP_RMS : NOVALUE;                ! Signals BASIC RMS error
;    97          0190  1
```

```
;   99          0191  1 GLOBAL ROUTINE BAS$NAME_AS (                  ! Change a file name
;  100          0192  1         OLD_FILE,                              ! Old name of file
;  101          0193  1         NEW_FILE                               ! New name of file
;  102          0194  1     ) : NOVALUE =
;  103          0195  1
;  104          0196  1 !++
;  105          0197  1 ! FUNCTIONAL DESCRIPTION:
;  106          0198  1 !
;  107          0199  1 !       Changes a file's name.  This is done by using the $RENAME
;  108          0200  1 !       RMS macro.
;  109          0201  1 !
;  110          0202  1 ! FORMAL PARAMETERS:
;  111          0203  1 !
;  112          0204  1 !       OLD_FILE.rt.dx  The old name of the file.
;  113          0205  1 !       NEW_FILE.rt.dx  The new name of the file.
;  114          0206  1 !
;  115          0207  1 ! IMPLICIT INPUTS:
;  116          0208  1 !
;  117          0209  1 !       NONE
;  118          0210  1 !
;  119          0211  1 ! IMPLICIT OUTPUTS:
;  120          0212  1 !
;  121          0213  1 !       NONE
;  122          0214  1 !
;  123          0215  1 ! ROUTINE VALUE:
;  124          0216  1 ! COMPLETION CODES:
;  125          0217  1 !
;  126          0218  1 !       NONE
;  127          0219  1 !
;  128          0220  1 ! SIDE EFFECTS:
;  129          0221  1 !
;  130          0222  1 !       Changes the directory entry for the file, but does not alter the
;  131          0223  1 !       file name stored in the file header block.
;  132          0224  1 !
;  133          0225  1 !--
;  134          0226  1
;  135          0227  2     BEGIN
;  136          0228  2
;  137          0229  2     MAP
;  138          0230  2         OLD_FILE : REF BLOCK [8, BYTE],
;  139          0231  2         NEW_FILE : REF BLOCK [8, BYTE];
;  140          0232  2
;  141          0233  2     LOCAL
;  142          0234  2         OLD_FAB : $FAB_DECL,
;  143          0235  2         NEW_FAB : $FAB_DECL,
;  144          0236  2         OLD_NAM : $NAM_DECL,
;  145          0237  2         NEW_NAM : $NAM_DECL,
;  146          0238  2         RENAME_RESULT;
;  147          0239  2
;  148        P 0240  2     $FAB_INIT (FAB = OLD_FAB,                  !
;  149        P 0241  2         FNA = .OLD_FILE [DSC$A_POINTER],       !
;  150        P 0242  2         FNS = .OLD_FILE [DSC$W_LENGTH],        !
;  151          0243  2         NAM = OLD_NAM);
;  152        P 0244  2     $FAB_INIT (FAB = NEW_FAB,                  !
;  153        P 0245  2         FNA = .NEW_FILE [DSC$A_POINTER],       !
;  154        P 0246  2         FNS = .NEW_FILE [DSC$W_LENGTH],        !
;  155          0247  2         NAM = NEW_NAM);
```

```
;  156          0248  2     $NAM_INIT (NAM = OLD_NAM);
;  157          0249  2     $NAM_INIT (NAM = NEW_NAM);
;  158          0250  2     RENAME_RESULT = $RENAME (OLDFAB = OLD_FAB, NEWFAB = NEW_FAB);
;  159          0251  2
;  160          0252  2     IF ( NOT .RENAME_RESULT) THEN BAS$$STOP_RMS (.OLD_FILE, .OLD_FAB [FAB$L_STS], .OLD_FAB [FAB$L_STV]);
;  161          0253  2
;  162          0254  2     RETURN;
;  163          0255  1     END;                                    ! end of BAS$NAME_AS

                                                                    .TITLE  BAS$NAME_AS
                                                                    .IDENT  \1-002\

                                                                    .EXTRN  BAS$$STOP_RMS, SYS$RENAME

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

                                                 007C 00000         .ENTRY  BAS$NAME_AS, Save R2,R3,R4,R5,R6        ; 0191
                                          5E     FEA0 CE  9E 00002  MOVAB   -352(SP), SP
    0050   8F              00                6E       00  2C 00007  MOVC5   #0, (SP), #0, #80, $RMS_PTR          ; 0243
                                                 B0   AD     0000E
                                    B0    AD     5003 8F  B0 00010  MOVW    #20483, $RMS_PTR
                                    C6    AD          02  90 00016  MOVB    #2, $RMS_PTR+22
                                    CF    AD          02  90 0001A  MOVB    #2, $RMS_PTR+31
                                    D8    AD       60 AE  9E 0001E  MOVAB   OLD_NAM, $RMS_PTR+40
                                          56    04 AC  D0 00023  MOVL    OLD_FILE, R6
                                    DC    AD    04 A6  D0 00027  MOVL    4(R6), $RMS_PTR+44
                                    E4    AD          66  90 0002C  MOVB    (R6), $RMS_PTR+52
    0050   8F              00                6E       00  2C 00030  MOVC5   #0, (SP), #0, #80, $RMS_PTR          ; 0247
                                                 FF60 CD     00037
                                 FF60   CD     5003 8F  B0 0003A  MOVW    #20483, $RMS_PTR
                                 FF76   CD          02  90 00041  MOVB    #2, $RMS_PTR+22
                                 FF7F   CD          02  90 00046  MOVB    #2, $RMS_PTR+31
                                    88  AD          6E  9E 0004B  MOVAB   NEW_NAM, $RMS_PTR+40
                                          50    08 AC  D0 0004F  MOVL    NEW_FILE, R0
                                    8C  AD    04 A0  D0 00053  MOVL    4(R0), $RMS_PTR
                                    94  AD          60  90 00058  MOVB    (R0), $RMS_PTR+52
    0060   8F              00                6E       00  2C 0005C  MOVC5   #0, (SP), #0, #96, $RMS_PTR          ; 0248
                                                 60   AE     00063
                                    60    AE     6002 8F  B0 00065  MOVW    #24578, $RMS_PTR
    0060   8F              00                6E       00  2C 0006B  MOVC5   #0, (SP), #0, #96, $RMS_PTR          ; 0249
                                                       6E  00072
                                          6E     6002 8F  B0 00073  MOVW    #24578, $RMS_PTR
                                                 FF60 CD  9F 00078  PUSHAB  NEW_FAB                              ; 0250
                                                       7E  7C 0007C  CLRQ    -(SP)
                                                 B0   AD  9F 0007E  PUSHAB  OLD_FAB
                                 00000000G  00          04  FB 00081  CALLS   #4, SYS$RENAME
                                          0D          50  E8 00088  BLBS    RENAME_RESULT, 1$                   ; 0252
                                          7E     B8   AD  7D 0008B  MOVQ    OLD_FAB+8, -(SP)
                                                       56  DD 0008F  PUSHL   R6
                                 00000000G  00          03  FB 00091  CALLS   #3, BAS$$STOP_RMS
                                                       04  00098 1$:  RET                                      ; 0255

; Routine Size:  153 bytes,    Routine Base:  _BAS$CODE + 0000

;  164          0256  1
```

```
;  165          0257  1 END
;  166          0258  1
;  167          0259  0 ELUDOM
```

. end of module BAS$NAME_AS

```
;                                PSECT SUMMARY
;
;      Name                    Bytes                       Attributes
;
;  _BAS$CODE                     153  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)


;                             Library Statistics
;
;                                        -------- Symbols --------      Pages       Processing
;      File                              Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776        58         0       581          00:01.0


;                                    COMMAND QUALIFIERS

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

; Size:          153 code + 0 data bytes
; Run Time:          00:07.1
; Elapsed Time:      00:17.5
; Lines/CPU Min:      2179
; Lexemes/CPU-Min: 46451
; Memory Used:  95 pages
; Compilation Complete
```

BASMID
LIS

BASMULDDI
LIS

BASNOTIMP
LIS

BASMOVEAR
LIS

BASMSGDEF
LIS

BASMSGGEN
LIS

BASONECHR
LIS

BASMOVE
LIS

BASNUM
LIS

BASNAMEAS
LIS

BASNUM1
LIS