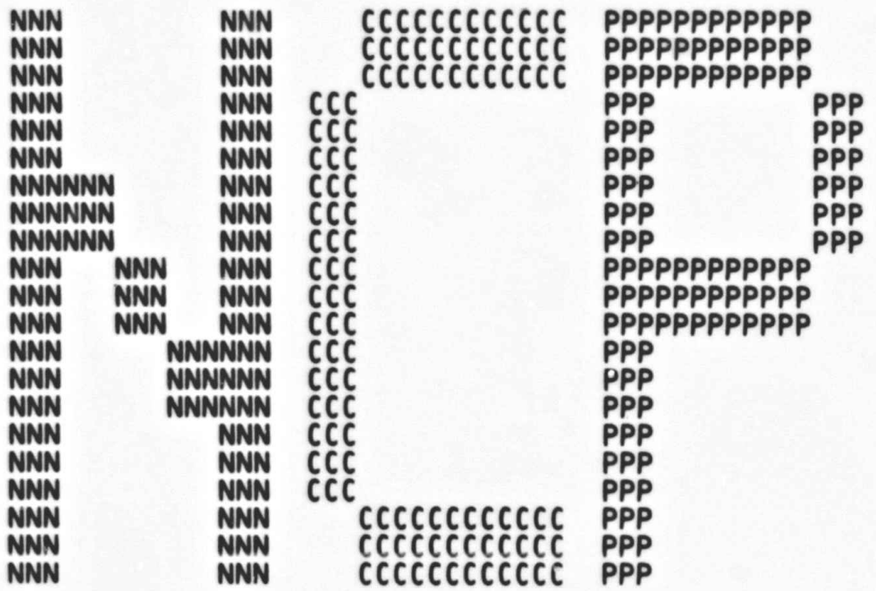
NNN NNN CCCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCC PPP PPP
NNN NNN CCC PPP PPP
NNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNNNNN CCC PPP
NNN NNNNNN CCC PPP
NNN NNNNNN CCC PPP
NNN NNN CCC PPP
NNN NNN CCC PPP
NNN NNN CCC PPP
NNN NNN CCCCCCCCCCCC PPP
NNN NNN CCCCCCCCCCCC PPP
NNN NNN CCCCCCCCCCCC PPP

FILEID**NCPSHOIO

```
NN      NN   CCCCCCCC  PPPPPPPP     SSSSSSSS  HH      HH   OOOOOO     IIIIII     OOOOOO
NN      NN   CCCCCCCC  PPPPPPPP     SSSSSSSS  HH      HH   OOOOOO     IIIIII     OOOOOO
NN      NN  CC         PP      PP  SS         HH      HH  OO      OO    II     OO      OO
NN      NN  CC         PP      PP  SS         HH      HH  OO      OO    II     OO      OO
NNNN    NN  CC         PP      PP  SS         HH      HH  OO      OO    II     OO      OO
NNNN    NN  CC         PP      PP  SS         HH      HH  OO      OO    II     OO      OO
NN  NN  NN  CC         PPPPPPPP     SSSSSS    HHHHHHHHHH  OO      OO    II     OO      OO
NN  NN  NN  CC         PPPPPPPP       SSSSSS  HHHHHHHHHH  OO      OO    II     OO      OO
NN    NNNN  CC         PP                   SS HH      HH  OO      OO    II     OO      OO
NN    NNNN  CC         PP                   SS HH      HH  OO      OO    II     OO      OO
NN      NN  CC         PP                   SS HH      HH  OO      OO    II     OO      OO
NN      NN  CC         PP                   SS HH      HH  OO      OO    II     OO      OO
NN      NN   CCCCCCCC  PP            SSSSSSSS  HH      HH   OOOOOO     IIIIII     OOOOOO
NN      NN   CCCCCCCC  PP            SSSSSSSS  HH      HH   OOOOOO     IIIIII     OOOOOO

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 %TITLE  'I/O Support for Show and List'
;  2     0002  0 MODULE NCPSHOIO (IDENT = 'V04-000',
;  3     0003  0                  ADDRESSING_MODE(EXTERNAL=GENERAL),
;  4     0004  0                  ADDRESSING_MODE(NONEXTERNAL=GENERAL)) =
;  5     0005  1 BEGIN
;  6     0006  1
;  7     0007  1 !
;  8     0008  1 !*****************************************************************************
;  9     0009  1 !*                                                                           *
; 10     0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
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; 21     0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
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; 24     0024  1 !*                                                                           *
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; 26     0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
; 27     0027  1 !*                                                                           *
; 28     0028  1 !*                                                                           *
; 29     0029  1 !*****************************************************************************
; 30     0030  1 !
; 31     0031  1
; 32     0032  1 !++
; 33     0033  1 ! FACILITY:     Network Control Program (NCP)
; 34     0034  1 !
; 35     0035  1 ! ABSTRACT:
; 36     0036  1 !
; 37     0037  1 !       This module contains the routines to manage the output
; 38     0038  1 !       file for the SHOW and LIST commands.  This file is specified by
; 39     0039  1 !       the TO parameter and defaults to SYS$OUTPUT.
; 40     0040  1 !
; 41     0041  1 ! ENVIRONMENT:  VAX/VMS Operating System
; 42     0042  1 !
; 43     0043  1 ! AUTHOR:       Darrell Duffy   , CREATION DATE: 4-December-1979
; 44     0044  1 !
; 45     0045  1 ! MODIFIED BY:
; 46     0046  1 !
; 47     0047  1 !       V001    TMH0001         Tim Halvorsen   28-Jul-1981
; 48     0048  1 !               Add general addressing.
; 49     0049  1 !--
```

```
;    51          0050  1 %SBTTL  'Definitions'
;    52          0051  1
;    53          0052  1 !
;    54          0053  1 ! TABLE OF CONTENTS:
;    55          0054  1 !
;    56          0055  1
;    57          0056  1 FORWARD ROUTINE
;    58          0057  1         NCP$OPENSHO : NOVALUE,          ! Open the show/list output file
;    59          0058  1         NCP$WRITESHO : NOVALUE,         ! Write a record to it
;    60          0059  1         NCP$CLOSESHO : NOVALUE          ! Close the file
;    61          0060  1         ;               !
;    62          0061  1
;    63          0062  1 !
;    64          0063  1 ! INCLUDE FILES:
;    65          0064  1 !
;    66          0065  1
;    67          0066  1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
;    68          0067  1 LIBRARY 'OBJ$:NCPLIBRY.L32';
;    69          0068  1
;    70          0069  1 !
;    71          0070  1 ! MACROS:
;    72          0071  1 !
;    73          0072  1
;    74          0073  1 !
;    75          0074  1 ! EQUATED SYMBOLS:
;    76          0075  1 !
;    77          0076  1
;    78          0077  1 !
;    79          0078  1 ! OWN STORAGE:
;    80          0079  1 !
;    81          0080  1
;    82          0081  1 OWN
;    83          0082  1         SHOOUTFAB : $FAB (),            ! Output FAB
;    84          0083  1
;    85          0084  1         SHOOUTRAB : $RAB ()             ! Output RAB
;    86          0085  1         ;
;    87          0086  1
;    88          0087  1 !
;    89          0088  1 ! EXTERNAL REFERENCES:
;    90          0089  1 !
;    91          0090  1
;    92          0091  1 EXTERNAL LITERAL
;    93          0092  1         NCP$_SHOFIL,                    ! File open error
;    94          0093  1         NCP$_SHOIO                      ! I/O error
;    95          0094  1         ;               !
```

```
;    97          0095  1 %SBTTL  'NCP$OPENSHO  Open Output File'
;    98          0096  1 GLOBAL ROUTINE NCP$OPENSHO :NOVALUE =   !
;    99          0097  1
;   100          0098  1 !++
;   101          0099  1 ! FUNCTIONAL DESCRIPTION:
;   102          0100  1 !
;   103          0101  1 !       Open the output file and connect the RAB.  If the TO parameter
;   104          0102  1 !       has not been specified, use SYS$OUTPUT as the file.
;   105          0103  1 !
;   106          0104  1 ! FORMAL PARAMETERS:
;   107          0105  1 !
;   108          0106  1 !       NONE
;   109          0107  1 !
;   110          0108  1 ! IMPLICIT INPUTS:
;   111          0109  1 !
;   112          0110  1 !       NONE
;   113          0111  1 !
;   114          0112  1 ! IMPLICIT OUTPUTS:
;   115          0113  1 !
;   116          0114  1 !       NONE
;   117          0115  1 !
;   118          0116  1 ! ROUTINE VALUE:
;   119          0117  1 ! COMPLETION CODES:
;   120          0118  1 !
;   121          0119  1 !       NONE
;   122          0120  1 !
;   123          0121  1 ! SIDE EFFECTS:
;   124          0122  1 !
;   125          0123  1 !       NONE
;   126          0124  1 !
;   127          0125  1 !--
;   128          0126  1
;   129          0127  2     BEGIN
;   130          0128  2
;   131          0129  2     LOCAL
;   132          0130  2         STATUS                          ! Status return value
;   133          0131  2         ;
;   134          0132  2
;   135          0133  2     EXTERNAL
;   136          0134  2         PDB$G_INF_TO : BBLOCK           ! Filespec for output file
;   137          0135  2         ;
;   138          0136  2
;   139        P 0137  2     $FAB_INIT
;   140        P 0138  2         (
;   141        P 0139  2         FAB = SHOOUTFAB,
;   142        P 0140  2         RAT = (CR),                     ! Implied carriage control
;   143        P 0141  2         FAC = PUT,                      ! Using put
;   144        P 0142  2         DNM = '.LIS',                   ! Default filename
;   145        P 0143  2         ORG = SEQ,                      ! Sequential org
;   146        P 0144  2         FOP = (CIF,MXV,TEF)             ! Create if, maximize versions,
;   147        P 0145  2                                         ! Truncate at eof
;   148          0146  2         );
;   149          0147  2
;   150        P 0148  2     $RAB_INIT
;   151        P 0149  2         (
;   152        P 0150  2         RAB = SHOOUTRAB,
;   153        P 0151  2         RAC = SEQ,
```

```
;   154          P 0152  2          FAB = SHOOUTFAB,
;   155          P 0153  2          ROP = EOF                           ! Position to end of file
;   156            0154  2          );
;   157            0155  2
;   158            0156  2      IF .PDB$G_INF_TO [PDB$B_STS_FLG]        ! Is there a filespec?
;   159            0157  2      THEN
;   160            0158  3          BEGIN                               ! Yes, setup the fab with it
;   161            0159  3          SHOOUTFAB [FAB$L_FNA] = PDB$G_INF_TO [PDB$T_DATA] + 1;
;   162            0160  3          SHOOUTFAB [FAB$B_FNS] = .(PDB$G_INF_TO [PDB$T_DATA]) <0, 8, 0>
;   163            0161  3          END
;   164            0162  2      ELSE
;   165            0163  3          BEGIN                               ! Set the default
;   166            0164  3          SHOOUTFAB [FAB$L_FNA] = UPLIT ('SYS$OUTPUT');
;   167            0165  3          SHOOUTFAB [FAB$B_FNS] = %CHARCOUNT ('SYS$OUTPUT')
;   168            0166  3          END
;   169            0167  2      ;
;   170            0168  2
;   171            0169  2      STATUS = $CREATE (FAB = SHOOUTFAB); ! Create the file
;   172            0170  2
;   173            0171  2      IF NOT .STATUS
;   174            0172  2      THEN                                    ! Signal any status we get
;   175            0173  2          SIGNAL_STOP (NCP$_SHOFIL, 0, .STATUS)
;   176            0174  2      ;
;   177            0175  2
;   178            0176  2      STATUS = $CONNECT (RAB = SHOOUTRAB); ! Connect the stream
;   179            0177  2
;   180            0178  2      IF NOT .STATUS
;   181            0179  2      THEN                                    ! Any signal any status here too
;   182            0180  2          SIGNAL_STOP (NCP$_SHOFIL, 0, .STATUS)
;   183            0181  2      ;
;   184            0182  2
;   185            0183  2      RETURN
;   186            0184  2
;   187            0185  1      END;


                                                                .TITLE  NCPSHOIO I/O Support for Show and List
                                                                .IDENT  \V04-000\

                                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                                                  53  49  4C  2E  00000 P.AAA:  .ASCII  \.LIS\
00  00  54  55  50  54  55  4F  24  53  59  53  00004 P.AAB:  .ASCII  \SYS$OUTPUT\<0><0>

                                                                .PSECT  $OWN$,NOEXE,2

                                                      03  00000 SHOOUTFAB:
                                                                .BYTE   3
                                                      50  00001         .BYTE   80
                                                    0000  00002         .WORD   0
                                                00000000  00004         .LONG   0
                                                00000000  00008         .LONG   0
                                                00000000  0000C         .LONG   0
                                                00000000  00010         .LONG   0
                                                    0000  00014         .WORD   0
                                                      02  00016         .BYTE   2
                                                      00  00017         .BYTE   0
```

```
00000000  00018          .LONG   0
      00  0001C          .BYTE   0
      00  0001D          .BYTE   0
      00  0001E          .BYTE   0
      02  0001F          .BYTE   2
00000000  00020          .LONG   0
00000000  00024          .LONG   0
00000000  00028          .LONG   0
00000000  0002C          .LONG   0
00000000  00030          .LONG   0
      00  00034          .BYTE   0
      00  00035          .BYTE   0
    0000  00036          .WORD   0
00000000  00038          .LONG   0
    0000  0003C          .WORD   0
      00  0003E          .BYTE   0
      00  0003F          .BYTE   0
00000000  00040          .LONG   0
00000000  00044          .LONG   0
    0000  00048          .WORD   0
      00  0004A          .BYTE   0
      00  0004B          .BYTE   0
00000000  0004C          .LONG   0
      01  00050 SHOOUTRAB:
                         .BYTE   1
      44  00051          .BYTE   68
    0000  00052          .WORD   0
00000000  00054          .LONG   0
00000000  00058          .LONG   0
00000000  0005C          .LONG   0
    0000# 00060          .WORD   0[3]
    0000  00066          .WORD   0
00000000  00068          .LONG   0
    0000  0006C          .WORD   0
      00  0006E          .BYTE   0
      00  0006F          .BYTE   0
    0000  00070          .WORD   0
    0000  00072          .WORD   0
00000000  00074          .LONG   0
00000000  00078          .LONG   0
00000000  0007C          .LONG   0
00000000  00080          .LONG   0
      00  00084          .BYTE   0
      00  00085          .BYTE   0
      00  00086          .BYTE   0
      00  00087          .BYTE   0
00000000  00088          .LONG   0
00000000  0008C          .LONG   0
00000000  00090          .LONG   0

                $RMS_PTR=       SHOOUTFAB
                $RMS_PTR=       SHOOUTRAB
                        .EXTRN  NCP$_SHOFIL, NCP$_SHOIO
                        .EXTRN  PDB$G_INF_TO, SYS$CREATE
                        .EXTRN  SYS$CONNECT

                        .PSECT  $CODE$,NOWRT,2
```

```
                                    03FC 00000          .ENTRY  NCP$OPENSHO, Save R2,R3,R4,R5,R6,R7,R8,R9 ; 0096
                            59 00000000G    00   9E 00002  MOVAB   LIB$STOP, R9
                            58 00000000G    8F   D0 00009  MOVL    #NCP$_SHOFIL, R8
                            57 00000000G    00   9E 00010  MOVAB   PDB$G_INF_TO, R7
                            56 00000000'    00   9E 00017  MOVAB   $RMS_PTR, R6
0050  8F         00             6E          00   2C 0001E  MOVC5   #0, (SP), #0, #80, $RMS_PTR                ; 0146
                                           66   00025
                            66      5003    8F   B0 00026  MOVW    #20483, $RMS_PTR
                        04  A6 12000002     8F   D0 0002B  MOVL    #301989890, $RMS_PTR+4
                        16  A6              01   90 00033  MOVB    #1, $RMS_PTR+22
                        1D  A6      0200    8F   B0 00037  MOVW    #512, $RMS_PTR+29
                        1F  A6              02   90 0003D  MOVB    #2, $RMS_PTR+31
                        30  A6 00000000'    00   9E 00041  MOVAB   P.AAA, $RMS_PTR+48
                        35  A6              04   90 00049  MOVB    #4, $RMS_PTR+53
0044  8F         00             6E          00   2C 0004D  MOVC5   #0, (SP), #0, #68, $RMS_PTR                ; 0154
                                    50      A6   00054
                        50  A6      4401    8F   B0 00056  MOVW    #17409, $RMS_PTR
                        54  A6      0100    8F   3C 0005C  MOVZWL  #256, $RMS_PTR+4
                                        6E  A6   94 00062  CLRB    $RMS_PTR+30
                    008C    C6              66   9E 00065  MOVAB   SHOOUTFAB, $RMS_PTR+60
                            0C              67   E9 0006A  BLBC    PDB$G_INF_TO, 1$                          ; 0156
                        2C  A6      02      A7   9E 0006D  MOVAB   PDB$G_INF_TO+2, SHOOUTFAB+44              ; 0159
                        34  A6      01      A7   90 00072  MOVB    PDB$G_INF_TO+1, SHOOUTFAB+52              ; 0160
                                            0C   11 00077  BRB     2$
                        2C  A6 00000000'    00   9E 00079 1$:    MOVAB   P.AAB, SHOOUTFAB+44               ; 0164
                        34  A6              0A   90 00081  MOVB    #10, SHOOUTFAB+52                         ; 0165
                                            56   DD 00085 2$:    PUSHL   R6                                ; 0169
                00000000G   00              01   FB 00087  CALLS   #1, SYS$CREATE
                            52              50   D0 0008E  MOVL    R0, STATUS
                            09              52   E8 00091  BLBS    STATUS, 3$                                ; 0171
                                            52   DD 00094  PUSHL   STATUS                                   ; 0173
                                            7E   D4 00096  CLRL    -(SP)
                                            58   DD 00098  PUSHL   R8
                        69                  03   FB 0009A  CALLS   #3, LIB$STOP
                            50  A6          9F   0009D 3$:    PUSHAB  SHOOUTRAB                             ; 0176
                00000000G   00              01   FB 000A0  CALLS   #1, SYS$CONNECT
                            52              50   D0 000A7  MOVL    R0, STATUS
                            09              52   E8 000AA  BLBS    STATUS, 4$                                ; 0178
                                            52   DD 000AD  PUSHL   STATUS                                   ; 0180
                                            7E   D4 000AF  CLRL    -(SP)
                                            58   DD 000B1  PUSHL   R8
                        69                  03   FB 000B3  CALLS   #3, LIB$STOP
                                            04   000B6 4$:    RET                                           ; 0185

; Routine Size:  183 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  189          0186  1 %SBTTL  'NCP$WRITESHO  Write a Record'
;  190          0187  1 GLOBAL ROUTINE NCP$WRITESHO (BUFDSC) :NOVALUE = !
;  191          0188  1
;  192          0189  1 !++
;  193          0190  1 ! FUNCTIONAL DESCRIPTION:
;  194          0191  1 !
;  195          0192  1 !       This routine writes a record to the output file for
;  196          0193  1 !       SHOW and LIST.  If an error occurs, the file is closed
;  197          0194  1 !       and the error is signaled.
;  198          0195  1 !
;  199          0196  1 ! FORMAL PARAMETERS:
;  200          0197  1 !
;  201          0198  1 !       BUFDSC          Address of a buffer descriptor of the record
;  202          0199  1 !
;  203          0200  1 ! IMPLICIT INPUTS:
;  204          0201  1 !
;  205          0202  1 !       NONE
;  206          0203  1 !
;  207          0204  1 ! IMPLICIT OUTPUTS:
;  208          0205  1 !
;  209          0206  1 !       NONE
;  210          0207  1 !
;  211          0208  1 ! ROUTINE VALUE:
;  212          0209  1 ! COMPLETION CODES:
;  213          0210  1 !
;  214          0211  1 !       NONE
;  215          0212  1 !
;  216          0213  1 ! SIDE EFFECTS:
;  217          0214  1 !
;  218          0215  1 !       NONE
;  219          0216  1 !
;  220          0217  1 !--
;  221          0218  1
;  222          0219  2     BEGIN
;  223          0220  2
;  224          0221  2     MAP
;  225          0222  2         BUFDSC : REF VECTOR [2]                 ! Output record descriptor
;  226          0223  2         ;
;  227          0224  2
;  228          0225  2     LOCAL
;  229          0226  2         PTR,                                    ! Pointer into buffer
;  230          0227  2         SIZE,                                   ! Size of remaining text
;  231          0228  2         PEREC,                                  ! Pointer to end of record
;  232          0229  2         PEND,                                   ! Pointer to end of buffer
;  233          0230  2         REND,                                   ! Pointer to end of a line
;  234          0231  2         STATUS                                  ! Status return
;  235          0232  2         ;
;  236          0233  2
;  237          0234  2
;  238          0235  2     PTR = CH$PTR (.BUFDSC [1]);                 ! Point into record
;  239          0236  2     SIZE = .BUFDSC [0];                         ! Size of remaining
;  240          0237  2     PEND = .PTR + .SIZE;                        ! Pointer to end
;  241          0238  2
;  242          0239  2     WHILE .SIZE GTR 0                           ! While there is a record
;  243          0240  2     DO
;  244          0241  3         BEGIN
;  245          0242  3         SHOOUTRAB [RAB$L_RBF] = .PTR;           ! The current buffer
```

```
;   246     0243  3          REND = CH$FIND_CH (.SIZE, .PTR, 13);    ! Find the next line
;   247     0244  3          IF NOT CH$FAIL (.REND)                  ! If there was one
;   248     0245  3          THEN
;   249     0246  4              BEGIN                               ! Set to write the line
;   250     0247  4              SHOOUTRAB [RAB$W_RSZ] = .REND - .PTR; ! Its size
;   251     0248  4              PTR = .REND + 2;                    ! Point beyond it
;   252     0249  4              SIZE = .PEND - .PTR                 ! Size of remaining text
;   253     0250  4              END
;   254     0251  3          ELSE
;   255     0252  4              BEGIN                               ! The whole buffer
;   256     0253  4              SHOOUTRAB [RAB$W_RSZ] = .SIZE;
;   257     0254  4              SIZE = 0                            ! No more left
;   258     0255  4              END
;   259     0256  3          ;
;   260     0257  3
;   261     0258  3      !
;   262     0259  3      !   Remove trailing spaces from record
;   263     0260  3      !
;   264     0261  3
;   265     0262  3          PEREC = .SHOOUTRAB [RAB$L_RBF] + .SHOOUTRAB [RAB$W_RSZ];
;   266     0263  3          WHILE CH$RCHAR (.PEREC - 1) EQL ' '
;   267     0264  3          DO
;   268     0265  3              PEREC = .PEREC - 1
;   269     0266  3          ;
;   270     0267  3
;   271     0268  3          SHOOUTRAB [RAB$W_RSZ] = MAX (1, .PEREC - .SHOOUTRAB [RAB$L_RBF] );
;   272     0269  3
;   273     0270  3          STATUS = $PUT (RAB = SHOOUTRAB);        ! Put the record
;   274     0271  3
;   275     0272  3          IF NOT .STATUS
;   276     0273  3          THEN                                    ! If error, close file and
;   277     0274  4              BEGIN                               ! signal status
;   278     0275  4              NCP$CLOSESHO ();
;   279     0276  4              SIGNAL_STOP (NCP$_SHOIO, 0, .STATUS)
;   280     0277  4              END
;   281     0278  3          END
;   282     0279  2      ;
;   283     0280  2
;   284     0281  2      RETURN
;   285     0282  2
;   286     0283  1      END;


                                                .EXTRN  SYS$PUT

                                  01FC 00000    .ENTRY  NCP$WRITESHO, Save R2,R3,R4,R5,R6,R7,R8      ; 0187
                 58 00000000'  00   9E 00002    MOVAB   SHOOUTRAB+34, R8                             ;
                 50       04   AC   D0 00009    MOVL    BUFDSC, R0                                   ; 0235
                 53            60   7D 0000D    MOVQ    (R0), SIZE                                   ; 0236
          57     54            53   C1 00010    ADDL3   SIZE, PTR, PEND                              ; 0237
                               53   D5 00014 1$: TSTL    SIZE                                         ; 0239
                               6E   15 00016    BLEQ    8$                                           ;
             06   A8           54   D0 00018    MOVL    PTR, SHOOUTRAB+40                            ; 0242
          64     53            0D   3A 0001C    LOCC    #13, SIZE, (PTR)                             ; 0243
                               02   12 00020    BNEQ    2$                                           ;
                               51   D4 00022    CLRL    R1                                           ;
```

```
                         55            51  D0 00024 2$:    MOVL    R1, REND                                ; 0244
                                       0E  13 00027        BEQL    3$                                      ; 0247
                   68    55            54  A3 00029        SUBW3   PTR, REND, SHOOUTRAB+34                 ; 0248
                         54       02   A5  9E 0002D        MOVAB   2(R5), PTR                              ; 0249
                   53    57            54  C3 00031        SUBL3   PTR, PEND, SIZE                         ; 0253
                                       05  11 00035        BRB     4$                                      ; 0254
                         68            53  B0 00037 3$:    MOVW    SIZE, SHOOUTRAB+34                      ; 0262
                                       53  D4 0003A        CLRL    SIZE                                    ;
                         50       06   A8  D0 0003C 4$:    MOVL    SHOOUTRAB+40, R0                        ; 0263
                         52            68  3C 00040        MOVZWL  SHOOUTRAB+34, PEREC                     ;
                         52            50  C0 00043        ADDL2   R0, PEREC                               ; 0265
                         20       FF   A2  91 00046 5$:    CMPB    -1(PEREC), #32                          ; 0268
                                       04  12 0004A        BNEQ    6$                                      ;
                                       52  D7 0004C        DECL    PEREC                                   ; 0270
                                       F6  11 0004E        BRB     5$                                      ;
                   50    52            50  C3 00050 6$:    SUBL3   R0, PEREC, R0                           ; 0272
                                       03  14 00054        BGTR    7$                                      ; 0275
                         50            01  D0 00056        MOVL    #1, R0                                  ; 0276
                         68            50  B0 00059 7$:    MOVW    R0, SHOOUTRAB+34                        ;
                                  DE   A8  9F 0005C        PUSHAB  SHOOUTRAB                               ;
                00000000G  00          01  FB 0005F        CALLS   #1, SYS$PUT                             ;
                         56            50  D0 00066        MOVL    R0, STATUS                              ;
                         A8            56  E8 00069        BLBS    STATUS, 1$                              ; 0283
                00000000V  00          00  FB 0006C        CALLS   #0, NCP$CLOSESHO                        ;
                                       56  DD 00073        PUSHL   STATUS                                  ;
                                       7E  D4 00075        CLRL    -(SP)                                   ;
                              00000000G  8F  DD 00077        PUSHL   #NCP$_SHOIO                             ;
                00000000G  00          03  FB 0007D        CALLS   #3, LIB$STOP                            ;
                                       8E  11 00084        BRB     1$                                      ; 0272
                                           04 00086 8$:    RET                                             ; 0283

; Routine Size:  135 bytes,    Routine Base:  $CODE$ + 00B7
```

```
;   288          0284  1 %SBTTL  'NCP$CLOSESHO  Close Output File'
;   289          0285  1 GLOBAL ROUTINE NCP$CLOSESHO :NOVALUE =  !
;   290          0286  1 !++
;   291          0287  1 ! FUNCTIONAL DESCRIPTION:
;   292          0288  1 !
;   293          0289  1 !       Close the output file
;   294          0290  1 !
;   295          0291  1 ! FORMAL PARAMETERS:
;   296          0292  1 !
;   297          0293  1 !       NONE
;   298          0294  1 !
;   299          0295  1 ! IMPLICIT INPUTS:
;   300          0296  1 !
;   301          0297  1 !       NONE
;   302          0298  1 !
;   303          0299  1 ! IMPLICIT OUTPUTS:
;   304          0300  1 !
;   305          0301  1 !       NONE
;   306          0302  1 !
;   307          0303  1 ! ROUTINE VALUE:
;   308          0304  1 ! COMPLETION CODES:
;   309          0305  1 !
;   310          0306  1 !       NONE
;   311          0307  1 !
;   312          0308  1 ! SIDE EFFECTS:
;   313          0309  1 !
;   314          0310  1 !       NONE
;   315          0311  1 !
;   316          0312  1 !--
;   317          0313  1
;   318          0314  2     BEGIN
;   319          0315  2
;   320          0316  2     $CLOSE (FAB = SHOOUTFAB);           ! Ignore any errors
;   321          0317  2
;   322          0318  2     RETURN
;   323          0319  2
;   324          0320  1     END;


                                                        .EXTRN  SYS$CLOSE

                                                0000 00000      .ENTRY  NCP$CLOSESHO, Save nothing                      ; 0285
                                00000000'  00     9F 00002      PUSHAB  SHOOUTFAB                                       ; 0316
                    00000000G   00                01   FB 00008      CALLS   #1, SYS$CLOSE                           ;
                                                      04 0000F      RET                                             ; 0320

; Routine Size:  16 bytes,    Routine Base:  $CODE$ + 013E
```

```
;  326          0321  1 END                           !End of module
;  327          0322  0 ELUDOM


                                                        .EXTRN  LIB$STOP

;                               PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $OWN$                           148  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                           16  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                          334  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                           Library Statistics
;                                        --------  Symbols  --------      Pages       Processing
;       File                             Total    Loaded   Percent       Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776        81         0          581        00:01.0
;  _$255$DUA28:[NCP.OBJ]NCPLIBRY.L32;1     373         3         0           52        00:00.3



;                                   COMMAND QUALIFIERS

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

; Size:          334 code + 164 data bytes
; Run Time:          00:10.8
; Elapsed Time:      00:39.9
; Lines/CPU Min:      1788
; Lexemes/CPU-Min:  34938
; Memory Used:   118 pages
; Compilation Complete
```

0268 AH-BT13A-SE
VAX/VMS V4.0

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NCPPRSACT
LIS

NCPSHOLIS
LIS

NCPSHOIO
LIS

NCPPDBS
LIS