K 7

```
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
```

```
_$2

Sym
---
NDX
NDX
NUM
NUM
OPE
OUT
PAC
PAC
PAC
PAC
PAC
PAC
PAC
PAD
PAG
PAG
PAG
PAG
PAG
PAG
PAG
PER
PUT
RCO
RIN

RLI
RNO
RNO
RTY
SAV
STR
STR
STR
STR
STR
STR

STR
STR
STR
STR
STR
STR
STR
STR
STR
STR
STR
STR
STR
STR
```

```
**FILE**ID**BOTPAG                                 I 8
```

```
BBBBBBBB      OOOOOO    TTTTTTTTTT  PPPPPPPP      AAAAAA      GGGGGGGG
BBBBBBBB      OOOOOO    TTTTTTTTTT  PPPPPPPP      AAAAAA      GGGGGGGG
BB      BB  OO      OO      TT      PP      PP  AA      AA  GG
BB      BB  OO      OO      TT      PP      PP  AA      AA  GG
BB      BB  OO      OO      TT      PP      PP  AA      AA  GG
BB      BB  OO      OO      TT      PP      PP  AA      AA  GG
BBBBBBBB    OO      OO      TT      PPPPPPPP    AA      AA  GG
BBBBBBBB    OO      OO      TT      PPPPPPPP    AA      AA  GG
BB      BB  OO      OO      TT      PP          AAAAAAAAAA  GG  GGGGGG
BB      BB  OO      OO      TT      PP          AAAAAAAAAA  GG  GGGGGG
BB      BB  OO      OO      TT      PP          AA      AA  GG      GG      ....
BB      BB  OO      OO      TT      PP          AA      AA  GG      GG      ....
BBBBBBBB      OOOOOO        TT      PP          AA      AA    GGGGGG        ....
BBBBBBBB      OOOOOO        TT      PP          AA      AA    GGGGGG        ....

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
```

CAPT
V04-

```
MODULE BOTPAG (                                          !
                IDENT = 'V04-000'
%BLISS32[,
        ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)
        ]
                ) =
BEGIN
!
!****************************************************************************
!*                                                                          *
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!*                                                                          *
!*                                                                          *
!****************************************************************************
!
!++
! FACILITY:     DSR (Digital Standard RUNOFF) / DSRPLUS
!
! ABSTRACT: Finishes that part of a page which occurs below the footnotes.
!
!
! ENVIRONMENT: Transportable
!
! AUTHOR: Rich Friday    CREATION DATE: 6 November, 1981
!
```

```
;    43             0042   1 %SBTTL 'Revision History'
;    44             0043   1 !
;    45             0044   1 ! MODIFIED BY:
;    46             0045   1 !
;    47             0046   1 !        003     KFA00003        Ken Alden       07-Mar-1983
;    48             0047   1 !                Global edit of all modules. Updated module names, idents,
;    49             0048   1 !                copyright dates. Changed require files to BLISS library.
;    50             0049   1 !
;    51             0050   1 !--
;    53         0051    1 %SBTTL 'Module Level Declarations'
;    54         0052    1
;    55         0053    1 !
;    56         0054    1 ! TABLE OF CONTENTS:
;    57         0055    1 !
;    58         0056    1 FORWARD ROUTINE
;    59         0057    1     BOTPAG : NOVALUE,
;    60         0058    1     CPAGEB : NOVALUE;
;    61         0059    1 !
;    62         0060    1 ! INCLUDE FILES:
;    63         0061    1 !
;    64         0062    1
;    65         0063    1 LIBRARY 'NXPORT:XPORT';                 ! XPORT Library
;    66         0064    1 REQUIRE 'REQ:RNODEF';                   ! RUNOFF variant definitions
;    67         0195    1
;    68       U 0196    1 %IF DSRPLUS %THEN
;    69       U 0197    1 LIBRARY 'REQ:DPLLIB';                   ! DSRPLUS BLISS Library
;    70         0198    1 %ELSE
;    71         0199    1 LIBRARY 'REQ:DSRLIB';                   ! DSR BLISS Library
;    72         0200    1 %FI
;    73         0201    1
;    74         0202    1 !
;    75         0203    1 ! MACROS:
;    76         0204    1 !
;    77         0205    1 ! This macro makes certain that when blank lines at the top or bottom of a page
;    78         0206    1 ! are skipped change bars don't get output.
;    79         0207    1 MACRO
;    80       M 0208    1     NO_BAR_SKIP (N) =
;    81       M 0209    1         BEGIN
;    82       M 0210    1         LOCAL
;    83       M 0211    1             HOLD_BARS;
;    84       M 0212    1         HOLD_BARS = .TSF_BARS;
;    85       M 0213    1         TSF_BARS = FALSE;
;    86       M 0214    1         USKIPL (N);
;    87       M 0215    1         TSF_BARS = .HOLD_BARS;
;    88         0216    1         END                       %;
;    89         0217    1 !
;    90         0218    1 ! EQUATED SYMBOLS:
;    91         0219    1 !
;    92         0220    1
;    93         0221    1 !
;    94         0222    1 ! OWN STORAGE:
;    95         0223    1 !
;    96         0224    1 !
;    97         0225    1 ! EXTERNAL REFERENCES:
;    98         0226    1 !
;    99         0227    1
;   100         0228    1 EXTERNAL
;   101         0229    1     GCA : GCA_DEFINITION,
;   102         0230    1     HCT : HCT_DEFINITION,
;   103         0231    1     PAGEN : PAGE_DEFINITION,
;   104         0232    1     PHAN : PHAN_DEFINITION,
;   105         0233    1     TPAGER : BLOCKVECTOR [1,PAGE_SCT_SIZE],      !List of terminating pages.
;   106         0234    1     TSF : TSF_DEFINITION;
;   107         0235    1
;   108         0236    1 EXTERNAL ROUTINE
;   109         0237    1     OUTTXT,
;   110          0238   1       PACBAS,
;   111          0239   1       PACPAG,
;   112          0240   1       PAGFND,
;   113          0241   1       USKIPL;
;   114          0242   1
```

CAP
V04-

```
1 GLOBAL ROUTINE BOTPAG : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       See ABSTRACT, above.
1 !
1 ! FORMAL PARAMETERS:    None
1 !
1 ! IMPLICIT INPUTS:      None
1 !
1 ! IMPLICIT OUTPUTS:     None
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:     None
1 !
1 ! SIDE EFFECTS: None
1 !
1 !--
1
2     BEGIN
2
2     !Output and center page number at bottom of page if
2     !the user has specified that page layout.
2     IF                                          !
3         (.HCT_LAYOUTN NEQ 0)
3         AND (.PHAN_LINES_TP NEQ 0)              !There must be something on the page.
2     THEN
2         CPAGEB ();
2
2     !We've just finished the bottom of a page.  And we know how many
2     !lines it contains.  At this point we need to remember exactly how many
2     !physical lines were written so that /SIMULATE can get to the top of
2     !the next page later.  Note that we can't simply go there because we
2     !may be skipping pages due to a /PAGES switch;  that means that
2     !the next physical page might not occur until several pages later,
2     !if it occurs at all.
2     IF                                          !
2         NOT .GCA_SKIP_OUT
2     THEN
2         PHAN_BOTTOM = .PHAN_LINES_TP;           !Save current count.
2
2     !If currently generating output, but there is a list of
2     !pages to be output, see if the page just finished terminates
2     !a particular list of pages.  If so, turn off output.
2     IF!
2         .GCA_ORANGE_CNT NEQ 0
2     THEN
2         IF!
2             NOT .GCA_SKIP_OUT
2         THEN
2         !See if output should be turned off right now.
2             GCA_SKIP_OUT = (PAGFND(PAGEN,TPAGER,.GCA_ORANGE_CNT, FALSE) NEQ 0);
2
1     END;                                        !End of BOTPAG
```

```
                                                            .TITLE  BOTPAG
                                                            .IDENT  \V04-000\

                                                            .EXTRN  GCA, HCT, PAGEN
                                                            .EXTRN  PHAN, TPAGER, TSF
                                                            .EXTRN  OUTTXT, PACBAS, PACPAG
                                                            .EXTRN  PAGFND, USKIPL

                                                            .PSECT  $CODE$,NOWRT,2

                                          000C 00000        .ENTRY  BOTPAG, Save R2,R3                      : 0243
                   53 00000000G   EF   9E 00002             MOVAB   PHAN+12, R3                             :
                   52 00000000G   EF   9E 00009             MOVAB   GCA+112, R2                             :
                      00000000G   EF   D5 00010             TSTL    HCT+32                                  : 0268
                                  0B   13 00016             BEQL    1$                                      :
                                  63   D5 00018             TSTL    PHAN+12                                 : 0269
                                  07   13 0001A             BEQL    1$                                      :
        00000000V  EF             00   FB 0001C             CALLS   #0, CPAGEB                              : 0271
                   04             62   E8 00023  1$:        BLBS    GCA+112, 2$                             : 0281
               2C  A3             63   D0 00026             MOVL    PHAN+12, PHAN+56                        : 0283
                   50         FC  A2   D0 0002A  2$:        MOVL    GCA+108, R0                             : 0289
                                  25   13 0002E             BEQL    4$                                      :
                   22             62   E8 00030             BLBS    GCA+112, 4$                             : 0292
                                  7E   D4 00033             CLRL    -(SP)                                   : 0295
                                  50   DD 00035             PUSHL   R0                                      :
                      00000000G   EF   9F 00037             PUSHAB  TPAGER                                  :
                      00000000G   EF   9F 0003D             PUSHAB  PAGEN                                   :
        00000000G  EF             04   FB 00043             CALLS   #4, PAGFND                              :
                                  51   D4 0004A             CLRL    R1                                      :
                                  50   D5 0004C             TSTL    R0                                      :
                                  02   13 0004E             BEQL    3$                                      :
                                  51   D6 00050             INCL    R1                                      :
                   62             51   D0 00052  3$:        MOVL    R1, GCA+112                             :
                                       04 00055  4$:        RET                                             : 0297

; Routine Size:  86 bytes,    Routine Base:  $CODE$ + 0000
```

```
:  172          0298   1 GLOBAL ROUTINE CPAGEB :NOVALUE =          !
:  173          0299   1
:  174          0300   1 !++
:  175          0301   1 ! FUNCTIONAL DESCRIPTION:
:  176          0302   1 !
:  177          0303   1 !       This rout:ne centers and outputs the page number at the bottom of the
:  178          0304   1 !       page.
:  179          0305   1 !
:  180          0306   1 ! FORMAL PARAMETERS:    None
:  181          0307   1 !
:  182          0308   1 ! IMPLICIT INPUTS:      None
:  183          0309   1 !
:  184          0310   1 ! IMPLICIT OUTPUTS:     None
:  185          0311   1 !
:  186          0312   1 ! ROUTINE VALUE:
:  187          0313   1 ! COMPLETION LODES:     None
:  188          0314   1 !
:  189          0315   1 ! SIDE EFFECTS: None
:  190          0316   1 !
:  191          0317   1 !--
:  192          0318   1
:  193          0319   2     BEGIN
:  194          0320   2
:  195          0321   2     LOCAL
:  196          0322   2         HOLD_TOP_PAGE,
:  197          0323   2         HOLD_PAGING;
:  198          0324   2
:  199          0325   2     !If the user doesn't want page numbers then just return.  This
:  200          0326   2     !means that if he says .NO NUMBER, but says to center the page number
:  201          0327   2     !at the bottom, he still gets the white space.
:  202          0328   3     IF  (NOT .HCT_NUMBER_PAGE)               !
:  203          0329   3         AND (.HCT_LAYOUT NEQ LAYOUT_RUN_BOTC)   !Generate the number if user wants running page numbers
:  204          0330   2     THEN
:  205          0331   2         RETURN;
:  206          0332   2
:  207          0333   2     !Turn off paging so a new page is not accidentally started.
:  208          0334   2     HOLD_PAGING = .PHAN_PAGING;
:  209          0335   2     HOLD_TOP_PAGE = .PHAN_TOP_PAGE;
:  210          0336   2     PHAN_PAGING = FALSE;
:  211          0337   2     PHAN_TOP_PAGE = FALSE;
:  212          0338   2
:  213          0339   2     !Position down to fill all lines except line where the page number goes.
:  214          0340   2     NO_BAR_SKIP (.PHAN_LLINES - (1 + .PHAN_LINES_TP));
:  215          0341   2
:  216          0342   2     !Now generate the page number in a temporary buffer.
:  217          0343   3     BEGIN
:  218          0344   3     LOCAL
:  219          0345   3         WORK_AREA : VECTOR[CH$ALLOCATION(100)],
:  220          0346   3         WORK_LENGTH,
:  221          0347   3         WORK_PTR;
:  222          0348   3
:  223          0349   3     WORK_PTR = CH$PTR (WORK_AREA);
:  224          0350   3
:  225          0351   3      !Generate either the running page number between a dash-space combination,
:  226          0352   3      !or the regular page number.
:  227          0353   3     IF  .HCT_LAYOUT EQL LAYOUT_RUN_BOTC
:  228          0354   3     THEN
:  229          0355  3         !User wants a running page number output.
:  230          0356  4         BEGIN
:  231          0357  4         !First generate "- " (dash space)
:  232          0358  4         CH$WCHAR_A (%C'-', WORK_PTR);
:  233          0359  4         CH$WCHAR_A (%C' ', WORK_PTR);
:  234          0360  4         WORK_LENGTH = 2;
:  235          0361  4         !Now insert the running page counter.
:  236          0362  4         WORK_LENGTH = .WORK_LENGTH + PACBAS (.PAGEN [SCT_RUN_PAGE], WORK_PTR, 10);
:  237          0363  4         !Now follow with " -" (space dash)
:  238          0364  4         CH$WCHAR_A (%C' ', WORK_PTR);
:  239          0365  4         CH$WCHAR_A (%C'-', WORK_PTR);
:  240          0366  4         WORK_LENGTH = .WORK_LENGTH + 2;
:  241          0367  4         END
:  242          0368  3     ELSE
:  243          0369  3         !Center the normal page number at the bottom.
:  244          0370  3         WORK_LENGTH = PACPAG (PAGEN, WORK_PTR); !Convert page number and get length.
:  245          0371  3
:  246          0372  3     !Finally, output the page number, centered.
:  247          0373  3     OUTTXT (CH$PTR(WORK_AREA), .WORK_LENGTH,.SCA_LWIDTH);
:  248          0374  2     END;
:  249          0375  2
:  250          0376  2     !Now restore the paging status and return.
:  251          0377  2     PHAN_PAGING = .HOLD_PAGING;
:  252          0378  2     PHAN_TOP_PAGE = .HOLD_TOP_PAGE;
:  253          0379  1     END;                            !End of CPAGEB



                                                       00FC 00000         .ENTRY  CPAGEB, Save R2,R3,R4,R5,R6,R7             ; 0298
                                       57 00000000G  EF   9E 00002         MOVAB   TSF, R7                                    :
                                       56 00000000G  EF   9E 00009         MOVAB   HCT+28, R6                                 :
                                       55 00000000G  EF   9E 00010         MOVAB   PHAN+40, R5                                :
                                       5E       98   AE   9E 00017         MOVAB   -104(SP), SP                               :
                                       06       F0   B6   E8 0001B         BLBS    @HCT+12, 1$                                ; 0328
                                       03            66   D1 0001F         CMPL    HCT+28, #3                                 ; 0329
                                                     01   13 00022         BEQL    1$                                         :
                                                          04 00024         RET                                                :
                                       53       00   B5   D0 00025 1$:     MOVL    @PHAN+40, HOLD_PAGING                      ; 0334
                                       54       D8   A5   D0 00029         MOVL    PHAN, HOLD_TOP_PAGE                        ; 0335
                                                00   B5   D4 0002D         CLRL    @PHAN+40                                   ; 0336
                                                D8   A5   D4 00030         CLRL    PHAN                                       ; 0337
                                       50            67   D0 00033         MOVL    TSF, R0                                    ; 0340
           52       7C   A0            01            00   EF 00036         EXTZV   #0, #1, 124(R0), HOLD_BARS                 :
                                  7C   A0            01   8A 0003C         BICB2   #1, 124(R0)                                :
                         50       DC   B5       E4   A5   C3 00040         SUBL3   PHAN+12, @PHAN+4, R0                       :
                                                FF   A0   9F 00046         PUSHAB  -1(R0)                                     :
                            00000000G  EF            01   FB 00049         CALLS   #1, USKIPL                                 :
                                       50            67   D0 00050         MOVL    TSF, R0                                    :
      7C   A0            01            00            52   F0 00053         INSV    HOLD_BARS, #0, #1, 124(R0)                 :
                                       6E       04   AE   9E 00059         MOVAB   WORK_AREA, WORK_PTR                        ; 0349
                                       03            66   D1 0005D         CMPL    HCT+28, #3                                 ; 0353
                                                     36   12 00060         BNEQ    2$                                         :
                                  00   BE            2D   90 00062         MOVB    #45, @WORK_PTR                             ; 0358
                                                     6E   D6 00066         INCL    WORK_PTR                                   :
                                  00   BE            20   90 00068         MOVB    #32, @WORK_PTR                             ; 0359
```

```
                                                     6E  D6 0006C         INCL    WORK_PTR                                    ;
                                       52            02  D0 0006E         MOVL    #2, WORK_LENGTH                             ; 0360
                                                     0A  DD 00071         PUSHL   #10                                         ; 0362
                                                04   AE  9F 00073         PUSHAB  WORK_PTR                                    ;
                                       7E 00000000G  EF  3C 00076         MOVZWL  PAGEN+14, -(SP)                             ;
                            00000000G  EF            03  FB 0007D         CALLS   #3, PACBAS                                  ;
                                       52            50  C0 00084         ADDL2   R0, WORK_LENGTH                             ;
                                  00   BE            20  90 00087         MOVB    #32, @WORK_PTR                              ; 0364
                                                     6E  D6 0008B         INCL    WORK_PTR                                    ;
                                  00   BE            2D  90 0008D         MOVB    #45, @WORK_PTR                              ; 0365
                                                     6E  D6 00091         INCL    WORK_PTR                                    ;
                                       52            02  C0 00093         ADDL2   #2, WORK_LENGTH                             ; 0366
                                                     12  11 00096         BRB     3$                                          ; 0353
                                                     5E  DD 00098 2$:     PUSHL   SP                                          ; 0370
                                          00000000G  EF  9F 0009A         PUSHAB  PAGEN                                       ;
                            00000000G  EF            02  FB 000A0         CALLS   #2, PACPAG                                  ;
                                       52            50  D0 000A7         MOVL    R0, WORK_LENGTH                             ;
                                          00000000G  FF  DD 000AA 3$:     PUSHL   @GCA+140                                    ; 0373
                                                     52  DD 000B0         PUSHL   WORK_LENGTH                                 ;
                                                0C   AE  9F 000B2         PUSHAB  WORK_AREA                                   ;
                            00000000G  EF            03  FB 000B5         CALLS   #3, OUTTXT                                  ;
                                  00   B5            53  D0 000BC         MOVL    HOLD_PAGING, @PHAN+40                       ; 0377
                                  D8   A5            54  D0 000C0         MOVL    HOLD_TOP_PAGE, PHAN                         ; 0378
                                                         04 000C4         RET                                                 ; 0379

; Routine Size:  197 bytes,    Routine Base:  $CODE$ + 0056


;  254          0380  1
;  255          0381  1 END                                                     !End of module BOTPAG
;  256          0382  0 ELUDOM




;                                         PSECT SUMMARY
;
;       Name                         Bytes                        Attributes
;
;   $CODE$                               283  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]XPORT.L32;1                  590         0         0         252        00:00.1
;   _$255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1            1248        26         2          86        00:00.2
;                                  COMMAND QUALIFIERS

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

; Size:          283 code + 0 data bytes
; Run Time:         00:06.4
; Elapsed Time:     00.18.2
; Lines/CPU Min:     3581
; Lexemes/CPU-Min: 16096
; Memory Used:  67 pages
; Compilation Complete
```

0337 AH-BT13A-SE
VAX/VMS V4.0

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BARS
LIS

SETCAS
REQ

VR
REQ

ALINE
LIS

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REQ

AREC
LIS

TOCRTY
REQ

XTNTAB
REQ

CAPTION
LIS

CLH
LIS

SCA
REQ

BOTPAG
LIS

TPROB
REQ

CNTVMSREQ
R32

TSF
REQ

NDXVMSREQ
R32

SAVE
REQ

CENTXT
LIS