```
RRRRRRRRRRR      UUU          UUU  NNN          NNN   000000000   FFFFFFFFFFFFFF   FFFFFFFFFFFFFF
RRRRRRRRRRR      UUU          UUU  NNN          NNN   000000000   FFFFFFFFFFFFFF   FFFFFFFFFFFFFF
RRRRRRRRRRR      UUU          UUU  NNN          NNN   000000000   FFFFFFFFFFFFF    FFFFFFFFFFFFF
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      NNNNNN   000       000 FFF             FFF
RRR    RRR       UUU          UUU  NNN       NNNNN   000       000 FFF             FFF
RRR     RRR      UUU          UUU  NNN        NNNN   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  NNN          NNN  000       000 FFF             FFF
RRR         RRR  UUUUUUUUUUUUUUUU  NNN          NNN   000000000   FFF             FFF
RRR          RRR UUUUUUUUUUUUUUUU  NNN          NNN   000000000   FFF             FFF
RRR          RRR UUUUUUUUUUUUUUUU  NNN          NNN   000000000   FFF             FFF
```

```
   SSSSSSSS  TTTTTTTTTT  DDDDDDD
   SSSSSSSS  TTTTTTTTTT  DDDDDDD
SS             TT        DD     DD
SS             TT        DD     DD
SS             TT        DD     DD
SS             TT        DD     DD
   SSSSSS      TT        DD     DD
   SSSSSS      TT        DD     DD
        SS     TT        DD     DD
        SS     TT        DD     DD
        SS     TT        DD     DD    ....
        SS     TT        DD     DD    ::::
SSSSSSSS       TT        DDDDDDD      ::::
SSSSSSSS       TT        DDDDDDD      ....


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
```

Processes .STANDARD command
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STH
V04

```
   1     0001   0  %TITLE 'Processes .STANDARD command'
   2     0002   0  MODULE STD (IDENT = 'V04-000'
   3   P 0003   0              %BLISS32[,ADDRESSING_MODE ( EXTERNAL          = LONG_RELATIVE,
   4     0004   0                                          NONEXTERNAL      = LONG_RELATIVE)]
   5     0005   0              ) =
   6     0006   1  BEGIN
   7     0007   1  !
   8     0008   1  !********************************************************************
   9     0009   1  !*                                                                  *
  10     0010   1  !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                        *
  11     0011   1  !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.         *
  12     0012   1  !*   ALL RIGHTS RESERVED.                                           *
  13     0013   1  !*                                                                  *
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  15     0015   1  !*   ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
  16     0016   1  !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
  17     0017   1  !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
  18     0018   1  !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
  19     0019   1  !*   TRANSFERRED.                                                   *
  20     0020   1  !*                                                                  *
  21     0021   1  !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
  22     0022   1  !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
  23     0023   1  !*   CORPORATION.                                                   *
  24     0024   1  !*                                                                  *
  25     0025   1  !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
  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  ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
  33     0033   1  !
  34     0034   1  ! ABSTRACT: Processes the .STANDARD command
  35     0035   1  !
  36     0036   1  ! ENVIRONMENT: Transportable
  37     0037   1  !
  38     0038   1  ! AUTHOR: R.W.Friday    CREATION DATE: August, 1978
  39     0039   1  !
```

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STD   Processes .STANDARD command   16-Sep-1984 01:49:18   VAX-11 Bliss-32 V4.0-742   Page   2   STH
V04-000   Revision History   14-Sep-1984 13:08:12   DISK$VMSMASTER:[RUNOFF.SRC]STD.BLI;1   (2)   V04

```
 41     0040  1 %SBTTL 'Revision History'
 42     0041  1 !
 43     0042  1 ! MODIFIED BY:
 44     0043  1 !
 45     0044  1 !     005     KFA00005        Ken Alden        5-Jul-1983
 46     0045  1 !             Fixed sca_justify so it works correctly with gca_autojust.
 47     0046  1 !
 48     0047  1 !     004     KFA00004        Ken Alden        28-Mar-1983
 49     0048  1 !             In SDXY the right margin is no longer reset(to gca_lwidth).
 50     0049  1 !
 51     0050  1 !     003     REM00003        Ray Marshall     07-Mar-1983
 52     0051  1 !             Global edit of all modules. Updated module names, idents,
 53     0052  1 !             copyright dates. Changed require files to BLISS library.
 54     0053  1 !
 55     0054  1 !--
```

```
 57        0055  1 %SBTTL 'Module Level Declarations'
 58        0056  1 !
 59        0057  1 ! TABLE OF CONTENTS:
 60        0058  1 !
 61        0059  1
 62        0060  1 FORWARD ROUTINE
 63        0061  1     SDXY : NOVALUE;
 64        0062  1
 65        0063  1 !
 66        0064  1 ! INCLUDE FILES:
 67        0065  1 !
 68        0066  1
 69        0067  1 LIBRARY 'NXPORT:XPORT';                    ! XPORT Library
 70        0068  1 REQUIRE 'REQ:RNODEF';                      ! RUNOFF variant definitions
 71        0199  1
 72     U  0200  1 %IF DSRPLUS %THEN
 73     U  0201  1 LIBRARY 'REQ:DPLLIB';                      ! DSRPLUS BLISS Library
 74        0202  1 %ELSE
 75        0203  1 LIBRARY 'REQ:DSRLIB';                      ! DSR BLISS Library
 76        0204  1 %FI
 77        0205  1
 78        0206  1 !
 79        0207  1 ! MACROS:
 80        0208  1 !
 81        0209  1
 82        0210  1 ! EQUATED SYMBOLS:
 83        0211  1 !
 84        0212  1
 85        0213  1 ! OWN STORAGE:
 86        0214  1 !
 87        0215  1
 88        0216  1 ! EXTERNAL REFERENCES:
 89        0217  1 !
 90        0218  1
 91        0219  1 EXTERNAL
 92        0220  1     GCA : GCA_DEFINITION,
 93        0221  1     IRA : FIXED_STRING,
 94        0222  1     NUMPRM : NUMPRM_DEFINE,
 95        0223  1     PDT : REF PDT_DEFINITION,
 96        0224  1     PHAN : PHAN_DEFINITION,
 97        0225  1     SCA : SCA_DEFINITION;
 98        0226  1
 99        0227  1 EXTERNAL LITERAL                           !Error messages
100        0228  1     RNFINM;
101        0229  1
102        0230  1 EXTERNAL ROUTINE
103        0231  1     ERMA,
104        0232  1     REMNEG,
105        0233  1     REMMRG,
106        0234  1     SETCAS,
107        0235  1     TSTBLK;
108        0236  1
```

STD
V04-000

Processes .STANDARD command
STD --

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STH
V04

```
110    0237  1  %SBTTL 'STD  --'
111    0238  1  GLOBAL ROUTINE std (handler_code) : NOVALUE =
112    0239  1
113    0240  1  !++
114    0241  1  ! FUNCTIONAL DESCRIPTION:
115    0242  1  !
116    0243  1  !      See the ABSTRACT, above.
117    0244  1  !
118    0245  1  ! FORMAL PARAMETERS:
119    0246  1  !
120    0247  1  !      HANDLER_CODE is passed for conformance only.
121    0248  1  !
122    0249  1  ! IMPLICIT INPUTS:
123    0250  1  !
124    0251  1  !      NUMPRM contains a number as processed by GETNUM.
125    0252  1  !
126    0253  1  ! IMPLICIT OUTPUTS:       None
127    0254  1  !
128    0255  1  ! ROUTINE VALUE:
129    0256  1  ! COMPLETION CODES:       None
130    0257  1  !
131    0258  1  ! SIDE EFFECTS:           None
132    0259  1  !
133    0260  1  !--
134    0261  1
135    0262  2      BEGIN
136    0263  2
137    0264  2      tstblk (0);                        !Force .LISTs and .NOTEs to end, and
138    0265  2      !issue error messages if applicable.
139    0266  2      remmrg ();                         !Report unreported bad margins.
140    0267  2      remneg ();                         !Report unreported bad backdents.
141    0268  2
142    0269  2      IF  NOT .num_result  THEN          ! If no argument given by user,
143    0270  2          num_value = .gca_lwidth        !  use current page width.
144    0271  2
145    0272  2      ELSE                                          ! Otherwise:
146    0273  3          BEGIN
147    0274  3          IF .num_sign NEQ 0  THEN        !  If a signed number, Try adjusting
148    0275  3              num_value = .num_value + .gca_lwidth  !     current page width.
149    0276  3          ELSE
150    0277  3              IF .num_length EQL 0 THEN   !  Otherwise, if user said nothing,
151    0278  3                  num_value = .gca_lwidth; !    ! use current page width
152    0279  3          IF .num_value LEQ 0  THEN       !  If negative number,
153    0280  4              BEGIN
154    0281  4              erma (rnfinm, false);       !      report error and
155    0282  4              num_value = .gca_lwidth;    !      retain current line width.
156    0283  3              END;
157    0284  2          END;
158    0285  2
159    0286  2      gca_lwidth = .num_value;
160    0287  2
161    0288  2      !Set lines per page based on page width.
162    0289  2
163    0290  2      IF  .gca_lwidth EQL 60  THEN
164    0291  2          phan_llines = 58
165    0292  2      ELSE
166    0293  2
```

```
 167    0294  2          IF  .gca_lwidth EQL 70
 168    0295  2          THEN
 169    0296  2              phan_llines = 74;
 170    0297  2
 171    0298  2     !Check for top of page condition so that footnotes
 172    0299  2     !get taken care of ok.
 173    0300  2
 174    0301  2     IF  .phan_lines_tp GEQ .phan_llines  THEN
 175    0302  2          phan_top_page = true;
 176    0303  2
 177    0304  2     pdt_indent = 0;
 178    0305  2     sdxy ();                               !Finish resetting.
 179    0306  1     END;                                  !End of STD


                                                          .TITLE  STD Processes .STANDARD command
                                                          .IDENT  \V04-000\

                                                          .EXTRN  GCA, IRA, NUMPRM
                                                          .EXTRN  PDT, PHAN, SCA, RNFINM
                                                          .EXTRN  ERMA, REMNEG, REMMRG
                                                          .EXTRN  SETCAS, TSTBLK

                                                          .PSECT  $CODE$,NOWRT,2

                                    001C 00000            .ENTRY  STD, Save R2,R3,R4            ; 0238
                    54 00000000G EF  9E 00002             MOVAB   PHAN+4, R4
                    53 00000000G EF  9E 00009             MOVAB   GCA+140, R3
                    52 00000000G EF  9E 00010             MOVAB   NUMPRM+4, R2
                                 7E  D4 00017             CLRL    -(SP)                         ; 0264
        00000000G EF              01  FB 00019            CALLS   #1, TSTBLK
        00000000G EF              00  FB 00020            CALLS   #0, REMMRG                    ; 0266
        00000000G EF              00  FB 00027            CALLS   #0, REMNEG                    ; 0267
                    27          FC A2  E9 0002E           BLBC    NUMPRM, 3$                    ; 0269
                              04 A2  D5 00032             TSTL    NUMPRM+8                      ; 0274
                              06 13 00035                 BEQL    1$
                    62        00 B3  C0 00037             ADDL2   @GCA+140, NUMPRM+4            ; 0275
                              09 11 0003B                 BRB     2$
                           08 A2  D5 0003D 1$:            TSTL    NUMPRM+12                     ; 0277
                              04 12 00040                 BNEQ    2$
                    62        00 B3  D0 00042             MOVL    @GCA+140, NUMPRM+4            ; 0278
                           62 D5 00046 2$:                TSTL    NUMPRM+4                      ; 0279
                              13 14 00048                 BGTR    4$
                                 7E  D4 0004A             CLRL    -(SP)                         ; 0281
                       00000000G 8F  DD 0004C             PUSHL   #RNFINM
        00000000G EF              02  FB 00052            CALLS   #2, ERMA
                    62        00 B3  D0 00059 3$:         MOVL    @GCA+140, NUMPRM+4            ; 0282
                    00        B3 62  D0 0005D 4$:         MOVL    NUMPRM+4, @GCA+140            ; 0286
                    3C        00 B3  D1 00061             CMPL    @GCA+140, #60                 ; 0290
                              06 12 00065                 BNEQ    5$
                    00        B4 3A  D0 00067             MOVL    #58, @PHAN+4                  ; 0291
                                 0F  11 0006B             BRB     6$
        00000046 8F            00 B3  D1 0006D 5$:        CMPL    @GCA+140, #70                 ; 0294
                              05 12 00075                 BNEQ    6$
                    00        B4 4A  8F  9A 00077         MOVZBL  #74, @PHAN+4                  ; 0296
                    00        B4 08 A4  D1 0007C 6$:      CMPL    PHAN+12, @PHAN+4              ; 0301
                              04 19 00081                 BLSS    7$
```

```
              FC  A4              01  D0 00083         MOVL    #1, PHAN            ; 0302
                    00000000G     FF  D4 00087 7$:     CLRL    @PDT               ; 0304
          00000000V EF            00  FB 0008D         CALLS   #0, SDXY           ; 0305
                                  04 00094             RET                        ; 0306
```

; Routine Size: 149 bytes,   Routine Base: $CODE$ + 0000

; 180   0307 1

STD
V04-000

Processes .STANDARD command
SDXY --

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STK
V04

```
182    0308  1 %SBTTL 'SDXY  --'
183    0309  1 GLOBAL ROUTINE sdxy : NOVALUE =
184    0310  1
185    0311  1 !++
186    0312  1 ! FUNCTIONAL DESCRIPTION:
187    0313  1 !
188    0314  1 !        Part of .STANDARD command common to .CHAPTER and .APPENDIX
189    0315  1 !
190    0316  1 ! FORMAL PARAMETERS:      None
191    0317  1 !
192    0318  1 ! IMPLICIT INPUTS:        None
193    0319  1 !
194    0320  1 ! IMPLICIT OUTPUTS:       None
195    0321  1 !
196    0322  1 ! ROUTINE VALUE:
197    0323  1 ! COMPLETION CODES:       None
198    0324  1 !
199    0325  1 ! SIDE EFFECTS:           None
200    0326  1 !
201    0327  1 !--
202    0328  1
203    0329  2    BEGIN
204    0330  2    phan_paging = .phan_cmd_paging;                !Turn on paging if not /NOPAGING
205    0331  2    sca_fill = true;
206    0332  2    sca_justify = .gca_autojust or .sca_justify;!Turn on justification if the user didn't
207    0333  2    sca_crock = .gca_autojust;                     !say .NO AUTOJUSTIFY.
208    0334  2    sca_spacing = 1;
209    0335  2    sca_lm = 0;
210    0336  2
211    0337  2    setcas (.gca_case);                            ! Set case rules.
212    0338  2
213    0339  1    END;                                           !End of SDXY
```

```
                                    000C 00000    .ENTRY   SDXY, Save R2,R3               ; 0309
                        53 00000000G EF 9E 00002   MOVAB    GCA+16, R3
                        52 00000000G EF 9E 00009   MOVAB    SCA+104, R2
            00000000G FF 00000000G EF D0 00010     MOVL     PHAN+44, @PHAN+40            ; 0330
                        00          B2 01 D0 0001B MOVL     #1, @SCA+104                 ; 0331
                        FC B2       00 B3 C8 0001F BISL2    @GCA+16, @SCA+100            ; 0332
                        08 B2       00 B3 D0 00024 MOVL     @GCA+16, @SCA+112            ; 0333
                        14 B2          01 D0 00029 MOVL     #1, @SCA+124                 ; 0334
                                    0C B2 D4 0002D CLRL     @SCA+116                     ; 0335
                                    70 B3 DD 00030 PUSHL    @GCA+128                     ; 0337
            00000000G EF             01 FB 00033   CALLS    #1, SETCAS
                                       04 0003A    RET                                  ; 0339
```

; Routine Size: 59 bytes,   Routine Base: $CODE$ + 0095

```
214    0340  1
215    0341  1 END                                              !End of module
216    0342  0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
$CODE$	208	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	-------- Symbols --------			Pages	Processing
	Total	Loaded	Percent	Mapped	Time
_255DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_255DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	29	2	86	00:00.3

COMMAND QUALIFIERS

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

Size: 208 code + 0 data bytes
Run Time: 00:05.1
Elapsed Time: 00:16.5
Lines/CPU Min: 4007
Lexemes/CPU-Min: 18691
Memory Used: 48 pages
Compilation Complete