```
RRRRRRRRRRRR        UUU         UUU  NNN         NNN    000000000     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR        UUU         UUU  NNN         NNN    000000000     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR        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
RRRRRRRRRRRR        UUU         UUU  NNN  NNN    NNN  000         000  FFFFFFFFFFF      FFFFFFFFFFF
RRRRRRRRRRRR        UUU         UUU  NNN  NNN    NNN  000         000  FFFFFFFFFFF      FFFFFFFFFFF
RRRRRRRRRRRR        UUU         UUU  NNN   NNN   NNN  000         000  FFFFFFFFFFF      FFFFFFFFFFF
RRR  RRR            UUU         UUU  NNN    NNNNN     000         000  FFF              FFF
RRR   RRR           UUU         UUU  NNN     NNNNN    000         000  FFF              FFF
RRR    RRR          UUU         UUU  NNN      NNNNN   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     UUUUUUUUUUUUUUU  NNN         NNN    000000000     FFF              FFF
RRR         RRR     UUUUUUUUUUUUUUU  NNN         NNN    000000000     FFF              FFF
RRR         RRR     UUUUUUUUUUUUUUU  NNN         NNN    000000000     FFF              FFF
```

```
SSSSSSSS  KK      KK   IIIIII   PPPPPPPP   LL
SSSSSSSS  KK      KK   IIIIII   PPPPPPPP   LL
SS        KK    KK       II     PP     PP  LL
SS        KK   KK        II     PP     PP  LL
SS        KK  KK         II     PP     PP  LL
SS        KK KK          II     PP     PP  LL
  SSSSSS  KKKKK          II     PPPPPPPP   LL
  SSSSSS  KKKKK          II     PPPPPPPP   LL
      SS  KK  KK         II     PP         LL
      SS  KK   KK        II     PP         LL
      SS  KK    KK       II     PP         LL
      SS  KK     KK      II     PP         LL                 ....
SSSSSSSS  KK      KK   IIIIII   PP         LLLLLLLLLL         ....
SSSSSSSS  KK      KK   IIIIII   PP         LLLLLLLLLL         ....


LL             IIIIII      SSSSSSSS
LL             IIIIII      SSSSSSSS
LL               II      SS
LL               II      SS
LL               II      SS
LL               II        SSSSSS
LL               II        SSSSSS
LL               II              SS
LL               II              SS
LL               II              SS
LL               II              SS
LLLLLLLLLL     IIIIII      SSSSSSSS
LLLLLLLLLL     IIIIII      SSSSSSSS
```

Perform all modes of line skiping
K 5
16-Sep-1984 01:47:33   VAX-11 Bliss-32 V4.0-742   Page 1
14-Sep-1984 13:08:09   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1   (1)

**F

```
    1    0001  0  %TITLE 'Perform all modes of line skiping'
    2    0002  0  MODULE SKIPL (  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:     Conditional and unconditional line skipping.
   35    0035  1  !
   36    0036  1  ! ENVIRONMENT: Transportable
   37    0037  1  !
   38    0038  1  ! AUTHOR:       R.W.Friday      CREATION DATE: May, 1978
   39    0039  1
```

```
   41    0040  1  %SBTTL 'Revision History'
   42    0041  1  ! MODIFIED BY:
   43    0042  1  !
   44    0043  1  !      011     KFA00011        Ken Alden        13-Jun-1983
   45    0044  1  !              Counting of lines is no longer performed in USKIPL
   46    0045  1  !                for /down skipping.
   47    0046  1  !
   48    0047  1  !      010     RER00010        Ron Randall      31-May-1983
   49    0048  1  !              Improved algorithm in uskipl that tests for space available
   50    0049  1  !              at end of page before calling newpag by adding hct_layout term.
   51    0050  1  !
   52    0051  1  !      009     KAD00009        Keith Dawson     22-Mar-1983
   53    0052  1  !              Added support for non-STREAM output (for LN01, VT100) --
   54    0053  1  !              call to macro op_dev_write_output_line instead of to
   55    0054  1  !              clh (clh_write_output).
   56    0055  1  !
   57    0056  1  !      008     REM00008        Ray Marshall     07-Mar-1983
   58    0057  1  !              Global edit of all modules. Updated module names, idents,
   59    0058  1  !              copyright dates. Changed require files to BLISS library.
   60    0059  1  !
   61    0060  1  !--
```

```
  63        0061  1 %SBTTL 'Module Level Declarations'
  64        0062  1 !
  65        0063  1 ! TABLE OF CONTENTS:
  66        0064  1 !
  67        0065  1 FORWARD ROUTINE
  68        0066  1     cskipl : novalue,
  69        0067  1     uform  : novalue,
  70        0068  1     uskipl : novalue;
  71        0069  1 !
  72        0070  1 ! INCLUDE FILES:
  73        0071  1 !
  74        0072  1 LIBRARY 'NXPORT:XPORT';              ! XPORT Library
  75        0073  1 REQUIRE 'REQ:RNODEF';               ! RUNOFF variant definitions
  76        0204  1
  77      U 0205  1 %IF DSRPLUS %THEN
  78      U 0206  1 LIBRARY 'REQ:DPLLIB';                ! DSRPLUS BLISS Library
  79        0207  1 %ELSE
  80        0208  1 LIBRARY 'REQ:DSRLIB';                ! DSR BLISS Library
  81        0209  1 %FI
  82        0210  1
  83        0211  1 !
  84        0212  1 ! EXTERNAL REFERENCES:
  85        0213  1 !
  86        0214  1 EXTERNAL
  87        0215  1     fnct : fnct_definition,
  88        0216  1     fra  : fixed_string,
  89        0217  1     gca  : gca_definition,
  90        0218  1     hct  : hct_definition,
  91        0219  1     phan : phan_definition,
  92        0220  1     tsf  : tsf_definition;
  93        0221  1
  94        0222  1 EXTERNAL ROUTINE
  95        0223  1     bwait,
  96        0224  1     clh,
  97        0225  1     fbwait,
  98        0226  1     lstops,
  99        0227  1     newpag,
 100        0228  1     tpfeql,
 101        0229  1     tpr;
 102        0230  1
```

N 5

SKIPL   Perform all modes of line skiping   16-Sep-1984 01:47:33   VAX-11 Bliss-32 V4.0-742   Page 4   SKPS
V04-000   CSKIPL -- skip requisit number of lines   14-Sep-1984 13:08:09   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1 (4)   V04-

```
 104    0231   1  %SBTTL 'CSKIPL -- skip requisit number of lines'
 105    0232   1  GLOBAL ROUTINE cskipl (lines) : NOVALUE =
 106    0233   1
 107    0234   1  !++
 108    0235   1  ! FUNCTIONAL DESCRIPTION:
 109    0236   1  !
 110    0237   1  !        Skips lines until either the top of a page is reached
 111    0238   1  !        or the requested number of lines have been skipped.
 112    0239   1  !
 113    0240   1  ! FORMAL PARAMETERS:
 114    0241   1  !
 115    0242   1  !        lines - Specifies the maximum number of lines to be skipped.
 116    0243   1  !
 117    0244   1  ! IMPLICIT INPUTS:        None
 118    0245   1  !
 119    0246   1  ! IMPLICIT OUTPUTS:       None
 120    0247   1  !
 121    0248   1  ! ROUTINE VALUE:
 122    0249   1  ! COMPLETION CODES:       None
 123    0250   1  !
 124    0251   1  ! SIDE EFFECTS:           None
 125    0252   1  !--
 126    0253   1
 127    0254   2      BEGIN
 128    0255   2
 129    0256   2      IF   .phan_top_page
 130    0257   2      THEN
 131    0258   2          RETURN;                          ! Don't skip lines if at top of page.
 132    0259   2
 133    0260   2      IF   .lines EQL 0
 134    0261   2      THEN
 135    0262   2          RETURN;                          ! Forget trivial requests.
 136    0263   2
 137    0264   2      IF   NOT tpr (.lines + 1)
 138    0265   2      THEN
 139    0266   2          !
 140    0267   2          ! Just start a new page if the skipping
 141    0268   2          ! would go over a page boundary.
 142    0269   2          !
 143    0270   2          phan_top_page = true
 144    0271   2      ELSE
 145    0272   3          BEGIN
 146    0273   3          !
 147    0274   3          ! Initialize output buffer.  When CLH gets called FRA is either empty
 148    0275   3          ! or else contains some stuff that appears to the left of the document.
 149    0276   3          !
 150    0277   3          fs_init (fra);
 151    0278   3          !
 152    0279   3          ! Attach listing options to line.
 153    0280   3          !
 154    0281   3          lstops (lstops_no_iseqn, true);
 155    0282   3          !
 156    0283   3          ! Write out the blank lines.
 157    0284   3          !
 158    0285   3          INCR I FROM 1 TO MIN (.lines, 500) DO
 159    0286   3              BEGIN
 160    0287   4
```

```
SKIPL          Perform all modes of line skiping              B 6                 VAX-11 Bliss-32 V4.0-742        Page 5      SKP'
V04-000        CSKIPL -- skip requisit number of lines    16-Sep-1984 01:47:33    DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1  (4)   V04
                                                          14-Sep-1984 13:08:09
```

```
161   0288  4                      IF .fnct_ready NEQ 0
162   0289  4                      THEN
163   0290  4
164   0291  4
165   0292  4                          ! Yup, there are footnotes waiting to be output.  So, before
166   0293  4                          ! writing a blank line, see if the paper is positioned at
167   0294  4                          ! precisely the position where some footnotes should appear.
168   0295  4
169   0296  4
170   0297  4                          IF tpfeql () NEQ 0
171   0298  4                          THEN
172   0299  4                              !
173   0300  4                              ! Yup, we're in the location where some footnotes should go.
174   0301  4                              ! If a blank line were to be put out now, it would be exactly
175   0302  4                              ! where the first line of the waiting footnotes is supposed
176   0303  4                              ! to appear.
177   0304  4                              !
178   0305  4                              ! THEREFORE, it's important that the blank line not be
179   0306  4                              ! generated.  Instead, the top-of-page indicator is set,
180   0307  4                              ! so that no more blank lines will be generated, and
181   0308  4                              ! so the next line of text will force out some footnotes.
182   0309  4                              !
183   0310  5                              BEGIN
184   0311  5                              phan_top_page = true;
185   0312  5                              RETURN;
186   0313  4                              END;
187   0314  4
188   0315  4                      IF NOT .gca_skip_out
189   0316  4                      THEN        ! If not skipping output, output blank lines only.
190   0317  4                          op_dev_write_output_line;
191   0318  4
192   0319  4                      phan_lines_tp = .phan_lines_tp + 1;          ! Count lines.
193   0320  3                      END;
194   0321  3
195   0322  3                  !
196   0323  3                  !Now restore the output buffer to an empty state
197   0324  3                  !
198   0325  4                  fs_init (fra)
199   0326  2                  END;
200   0327  2
201   0328  1          END;                                          ! End of CSKIPL


                                                          .TITLE   SKIPL Perform all modes of line skiping
                                                          .IDENT   \V04-000\

                                                          .EXTRN   FNCT, FRA, GCA, HCT
                                                          .EXTRN   PHAN, TSF, BWAIT
                                                          .EXTRN   CLH, FBWAIT, LSTOPS
                                                          .EXTRN   NEWPAG, TPFEQL, TPR

                                                          .PSECT   $CODE$,NOWR,,2

                                        003C 00000        .ENTRY   CSKIPL, Save R2,R3,R4,R5          ; 0232
                        55 00000000G EF  9E 00002         MOVAB    PHAN, R5
                        54 00000000G EF  9E 00009         MOVAB    FRA, R4
                        01           65  E9 00010         BLBC     PHAN, 1$                          ; 0256
```

SKIPL   Perform all modes of line skiping   C 6   Page 6
V04-000   CSKIPL -- skip requisit number of lines   16-Sep-1984 01:47:33   VAX-11 Bliss-32 V4.0-742   (4)
                                                                 14-Sep-1984 13:08:09   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1

```
                                                04 00013           RET
                            52          04  AC  D0 00014 1$:       MOVL     LINES, R2                      0260
                                                7D  13 00018       BEQL     10$
                                        01  A2  9F 0001A           PUSHAB   1(R2)                          0264
                   00000000G  EF        01  FB 0001D              CALLS    #1, TPR
                            3B              50  E9 00024           BLBC     R0, 4$
                                        0C  A4  D4 00027           CLRL     FRA+12                         0277
                            64          10  A4  9E 0002A           MOVAB    FRA+16, FRA
                   04  A4                   64  D0 0002E           MOVL     FRA, FRA+4
                                        01  DD 00032              PUSHL    #1                             0281
                                        0B  DD 00034              PUSHL    #11
                   00000000G  EF        02  FB 00036              CALLS    #2, LSTOPS
                   000001F4  8F         52  D1 0003D              CMPL     R2, #500                       0286
                                        05  15 00044              BLEQ     2$
                            52      01F4  8F  3C 00046            MOVZWL   #500, R2
                                            53  D4 0004B 2$:       CLRL     I
                                            39  11 0004D          BRB      9$
                      00000000G  EF         D5 0004F 3$:          TSTL     FNCT+4                         0289
                                            0F  13 00055          BEQL     5$
                   00000000G  EF            00  FB 00057          CALLS    #0, TPFEQL                     0297
                                            50  D5 0005E          TSTL     R0
                                            04  13 00060          BEQL     5$
                            65              01  D0 00062 4$:      MOVL     #1, PHAN                       0311
                                            04 00065             RET                                     0310
                      18 00000000G  EF      E8 00066 5$:         BLBS     GCA+112, 8$                    0315
   02 00000000G  EF            04  ED 0006D                      CMPZV    #4, #4, GCA+208, #2            0316
                                            04  14 00076          BGTR     6$
                                            06  DD 00078          PUSHL    #6
                                            02  11 0007A          BRB      7$
                                            0B  DD 0007C 6$:      PUSHL    #11
                   00000000G  EF            01  FB 0007E 7$:      CALLS    #1, CLH
                                        0C  A5  D6 00085 8$:      INCL     PHAN+12                        0319
                   C3                       53  52  F3 00088 9$:  AOBLEQ   R2, I, 3$                      0286
                                        0C  A4  D4 0008C          CLRL     FRA+12                         0325
                            64          10  A4  9E 0008F          MOVAB    FRA+16, FRA
                   04  A4                   64  D0 00093          MOVL     FRA, FRA+4
                                            04 00097 10$:        RET                                     0328
```

; Routine Size: 152 bytes,   Routine Base: $CODE$ + 0000

; 202   0329 1

SKIPL
V04-000
Perform all modes of line skiping
USKIPL -- unconditionally skip n lines
D 6
16-Sep-1984 01:47:33   VAX-11 Bliss-32 V4.0-742   Page 7
14-Sep-1984 13:08:09   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1   (5)

```
204    0330    1    %SBTTL 'USKIPL -- unconditionally skip n lines'
205    0331    1    GLOBAL ROUTINE uskipl (lines) : NOVALUE =
206    0332    1
207    0333    1    !++
208    0334    1    ! FUNCTIONAL DESCRIPTION:
209    0335    1    !
210    0336    1    !        Skips lines regardless of position on the page.  In the event
211    0337    1    !        that there is a pending formfeed, it forces that out also.  Note that
212    0338    1    !        the only time a formfeed could be pending is at the top of a page, when
213    0339    1    !        the user had said .NO HEADERS.  The routine cskipl cannot put out the
214    0340    1    !        formfeed because it skips lines only if they do not occur at the top of
215    0341    1    !        the page.  The only other routine that can catch pending formfeeds is
216    0342    1    !        lout1.
217    0343    1    !
218    0344    1    ! FORMAL PARAMETERS:
219    0345    1    !
220    0346    1    !        lines - Specifies how many lines are to be skipped.
221    0347    1    !
222    0348    1    ! IMPLICIT INPUTS:        None
223    0349    1    !
224    0350    1    ! IMPLICIT OUTPUTS:       None
225    0351    1    !
226    0352    1    ! ROUTINE VALUE:
227    0353    1    ! COMPLETION CODES:       None
228    0354    1    !
229    0355    1    ! SIDE EFFECTS:           None
230    0356    1    !--
231    0357    1
232    0358    2        BEGIN
233    0359    2
234    0360    2        LOCAL
235    0361    2            skip;
236    0362    2
237    0363    2        IF   .lines EQL 0
238    0364    2        THEN
239    0365    2            RETURN;                        ! No lines to skip.
240    0366    2
241    0367    2        skip = .lines;
242    0368    2
243    0369    2        IF   .phan_form_pend NEQ 0
244    0370    2        THEN                               ! If a form feed is pending
245    0371    2            IF   .phan_simulate
246    0372    2            THEN                           !   and /SIMULATE,
247    0373    2                uform ()                   !   then simulate the formfeed.
248    0374    2            ELSE                           !   If a form feed and /NOSIMULATE,
249    0375    3                BEGIN                      !   then force out pending formfeed
250    0376    3                IF   .phan_pause
251    0377    3                THEN
252    0378    4                    (IF NOT .gca_skip_out
253    0379    4                     THEN
254    0380    4                        fbwait ())         ! Bell the user before issuing the <FF>.
255    0381    3                ELSE
256    0382    3                    fs_wchar (fra, .phan_form_pend);
257    0383    3
258    0384    3            lstops (lstops_no_iseqn, true); ! Attach listing options to line.
259    0385    3
260    0386    3                IF   NOT .gca_skip_out
```

SKIPL   Perform all modes of line skiping   E 6   VAX-11 Bliss-32 V4.0-742   Page 8   **F
V04-000   USKIPL -- unconditionally skip n lines   16-Sep-1984 01:47:33   (5)
                                                                  14-Sep-1984 13:08:09   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1

```
 261  0387  3              THEN                                        ! If output is suppressed, then
 262  0388  3                  op_dev_write_output_line;               ! don't write blank lines.
 263  0389  3
 264  0390  3              IF NOT .gca_down_flag
 265  0391  3              THEN
 266  0392  3                  phan_lines_tp = .phan_lines_tp + 1;        ! Count lines.
 267  0393  3
 268  0394  3              skip = .skip - 1;
 269  0395  3              phan_form_pend = 0;
 270  0396  3              fs_init (fra);
 271  0397  2              END;
 272  0398  2
 273  0399  2          INCR i FROM 1 TO min (.skip, 500) DO
 274  0400  3              BEGIN
 275  0401  3
 276  0402  4              IF   .phan_paging AND (.phan_top_page OR
 277  0403  6                  ((.phan_lines_tp + (IF .hct_layout EQL 0 THEN 0 ELSE 1))
 278  0404  4                  GEQ .phan_llines))
 279  0405  3              THEN
 280  0406  3                  newpag ();
 281  0407  3
 282  0408  3              fs_init (fra);
 283  0409  3
 284  0410  3              lstops (lstops_no_iseqn, true); ! Attach listing options to line.
 285  0411  3
 286  0412  3              IF  NOT .gca_skip_out   THEN    ! If output is NOT suppressed,
 287  0413  3                  op_dev_write_output_line;   ! write out blank lines.
 288  0414  3
 289  0415  3              IF NOT .gca_down_flag
 290  0416  3              THEN
 291  0417  3                  phan_lines_tp = .phan_lines_tp + 1; ! Count lines if not /down.
 292  0418  2              END;
 293  0419  2
 294  0420  2          fs_init (fra);
 295  0421  1          END;                                        ! End of USKIPL
```

```
                                 01FC 00000           .ENTRY   USKIPL, Save R2,R3,R4,R5,R6,R7,R8        ; 0331
               58 00000000G EF 9E 00002               MOVAB    CLH, R8
               57 00000000G EF 9E 00009               MOVAB    LSTOPS, R7
               56 00000000G EF 9E 00010               MOVAB    GCA+112, R6
               55 00000000G EF 9E 00017               MOVAB    PHAN+12, R5
               54 00000000G EF 9E 0001E               MOVAB    FRA, R4
                         04 AC D5 00025               TSTL     LINES                                   ; 0363
                         01 12 00028               BNEQ     1$
                         04 0002A               RET
               52          04 AC D0 0002B 1$:       MOVL     LINES, SKIP                            ; 0367
               53          14 A5 D0 0002F           MOVL     PHAN+32, R3                            ; 0369
                         58 13 00033               BEQL     9$
               09          28 A5 E9 00035           BLBC     PHAN+52, 2$                            ; 0371
    00000000V EF          00 FB 00039               CALLS    #0, UFORM                              ; 0373
                         4B 11 00040               BRB      9$
               0C          30 A5 E9 00042 2$:       BLBC     PHAN+60, 3$                            ; 0376
               13          66 E8 00046               BLBS     GCA+112, 4$                            ; 0378
```

```
SKIPL       Perform all modes of line skiping          F 6
V04-000     USKIPL -- unconditionally skip n lines     16-Sep-1984 01:47:33   VAX-11 Bliss-32 V4.0-742        Page   9
                                                        14-Sep-1984 13:08:09   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1  (5)
```

```
              00000000G  EF         00  FB 00049          CALLS   #0, FBWAIT                      0380
                                    0A  11 00050          BRB     4$                              0378
                     04  B4         53  90 00052  3$:     MOVB    R3, @FRA+4                      0382
                               04   A4  D6 00056          INCL    FRA+4
                               0C   A4  D6 00059          INCL    FRA+12
                                    01  DD 0005C  4$:     PUSHL   #1                              0384
                                    0B  DD 0005E          PUSHL   #11
                     67             02  FB 00060          CALLS   #2, LSTOPS                      0386
                     11             66  E8 00063          BLBS    GCA+112, 7$                     0387
   02   60   A6      04             04  ED 00066          CMPZV   #4, #4, GCA+208, #2
                                    04  14 0006C          BGTR    5$
                                    06  DD 0006E          PUSHL   #6
                                    02  11 00070          BRB     6$
                                    0B  DD 00072  5$:     PUSHL   #11
                     68             01  FB 00074  6$:     CALLS   #1, CLH
                     02        44   A6  E8 00077  7$:     BLBS    GCA+180, 8$                     0390
                                    65  D6 0007B          INCL    PHAN+12                         0392
                                    52  D7 0007D  8$:     DECL    SKIP                            0394
                               14   A5  D4 0007F          CLRL    PHAN+32                         0395
                               0C   A4  D4 00082          CLRL    FRA+12                          0396
                     64        10   A4  9E 00085          MOVAB   FRA+16, FRA
                04   A4             64  D0 00089          MOVL    FRA, FRA+4
         000001F4   8F             52  D1 0008D  9$:     CMPL    R2, #500                        0399
                                    05  15 00094          BLEQ    10$
                     52        01F4 8F  3C 00096          MOVZWL  #500, R2
                                    53  D4 0009B  10$:    CLRL    I
                                    53  11 0009D          BRB     19$
                     23        1C   B5  E9 0009F  11$:    BLBC    @PHAN+40, 15$                   0402
                     18        F4   A5  E8 000A3          BLBS    PHAN, 14$
                       00000000G   EF  D5 000A7          TSTL    HCT+28                          0403
                                    04  12 000AD          BNEQ    12$
                                    50  D4 000AF          CLRL    R0
                                    03  11 000B1          BRB     13$
                     50             01  D0 000B3  12$:    MOVL    #1, R0
                     50             65  C0 000B6  13$:    ADDL2   PHAN+12, R0
                F8   B5             50  D1 000B9          CMPL    R0, @PHAN+4                     0404
                                    07  19 000BD          BLSS    15$
              00000000G  EF         00  FB 000BF  14$:    CALLS   #0, NEWPAG                      0406
                               0C   A4  D4 000C6  15$:    CLRL    FRA+12                          0408
                     64        10   A4  9E 000C9          MOVAB   FRA+16, FRA
                04   A4             64  D0 000CD          MOVL    FRA, FRA+4
                                    01  DD 000D1          PUSHL   #1                              0410
                                    0B  DD 000D3          PUSHL   #11
                     67             02  FB 000D5          CALLS   #2, LSTOPS
                     11             66  E8 000D8          BLBS    GCA+112, 18$                    0412
   02   60   A6      04             04  ED 000DB          CMPZV   #4, #4, GCA+208, #2
                                    04  14 000E1          BGTR    16$
                                    06  DD 000E3          PUSHL   #6
                                    02  11 000E5          BRB     17$
                                    0B  DD 000E7  16$:    PUSHL   #11
                     68             01  FB 000E9  17$:    CALLS   #1, CLH
                     02        44   A6  E8 000EC  18$:    BLBS    GCA+180, 19$                    0415
                                    65  D6 000F0          INCL    PHAN+12                         0417
                A9                 53  52  F3 000F2  19$:  AOBLEQ  R2, I, 11$                      0399
                               0C   A4  D4 000F6          CLRL    FRA+12                          0420
                     64        10   A4  9E 000F9          MOVAB   FRA+16, FRA
                04   A4             64  D0 000FD          MOVL    FRA, FRA+4
```

```
                                    04 00101        RET                                                    ; 0421
; Routine Size:  258 bytes,    Routine Base:  $CODE$ + 0098

;  296          0422  1
```

H 6

```
298    0423  1  %SBTTL 'UFORM -- throw blank lines to top-of-page'
299    0424  1  GLOBAL ROUTINE uform : NOVALUE =
300    0425  1
301    0426  1  !++
302    0427  1  ! FUNCTIONAL DESCRIPTION:
303    0428  1  !
304    0429  1  !      Starts a new page by simulating a form feed by
305    0430  1  !      putting out a sufficient number of blank lines.
306    0431  1  !
307    0432  1  ! FORMAL PARAMETERS:     None
308    0433  1  !
309    0434  1  ! IMPLICIT INPUTS:       None
310    0435  1  !
311    0436  1  ! IMPLICIT OUTPUTS:      None
312    0437  1  !
313    0438  1  ! ROUTINE VALUE:
314    0439  1  ! COMPLETION CODES:      None
315    0440  1  !
316    0441  1  ! SIDE EFFECTS:          None
317    0442  1  !--
318    0443  1
319    0444  2      BEGIN
320    0445  2
321    0446  2      LOCAL
322    0447  2          to_end;
323    0448  2
324    0449  2      IF  .gca_skip_out
325    0450  2      THEN
326    0451  2          RETURN;
327    0452  2
328    0453  2      !
329    0454  2      ! User said /SIMULATE, so simulate formfeeds.
330    0455  2      !
331    0456  2      fs_init (fra);
332    0457  2      to_end = .phan_plines - (.phan_bottom MOD .phan_plines);
333    0458  2
334    0459  2      IF  .to_end NEQ .phan_plines
335    0460  2      THEN
336    0461  2          !
337    0462  2          ! Skip blank lines only if not already at the end of the page.
338    0463  2          !
339    0464  2          INCR i FROM 1 TO MIN (.to_end, 500) DO
340    0465  2              op_dev_write_output_line;
341    0466  2
342    0467  2      phan_form_pend = 0;                              ! No more pending formfeed.
343    0468  2
344    0469  2      !
345    0470  2      ! Buzz the user if he said /PAUSE.
346    0471  2      !
347    0472  2      IF  .phan_pause
348    0473  2      THEN
349    0474  2          bwait ();
350    0475  2
351    0476  1      END;                                            ! End of UFORM
```

```
SKIPL          Perform all modes of line skiping        I 6                    VAX-11 Bliss-32 V4.0-742        Page 12       STC
V04-000        UFORM -- throw blank lines to top-of-page  16-Sep-1984 01:47:33  DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1  (6)      V04
                                                          14-Sep-1984 13:08:09
```

```
                                        003C 00000              .ENTRY   UFORM, Save R2,R3,R4,R5                    ; 0424
                                55 00000000G EF 9E 00002        MOVAB    PHAN+8, R5
                                54 00000000G EF 9E 00009        MOVAB    FRA, R4
                                61 00000000G EF E8 00010        BLBS     GCA+112, 7$                               ; 0449
                                          0C A4 D4 00017        CLRL     FRA+12                                    ; 0456
                                    64    10 A4 9E 0001A        MOVAB    FRA+16, FRA
                                 04 A4    64 D0 0001F           MOVL     FRA, FRA+4
                                 51       65 D0 00022           MOVL     PHAN+8, R1                                ; 0457
       7E          00      30 A5 01 7A 00025                    EMUL     #1, PHAN+56, #0, -(SP)
       50          50         8E 51 7B 0002B                    EDIV     R1, (SP)+, R0, R0
                   50         51 50 C3 00030                    SUBL3    R0, R1, TO_END
                              51 50 D1 00034                    CMPL     TO_END, R1                                ; 0459
                              31 13 00037                       BEQL     6$
                              53 50 D0 00039                    MOVL     TO_END, R3                                ; 0464
               000001F4 8F 53 D1 0003C                         CMPL     R3, #500
                              05 15 00043                       BLEQ     1$
                         53 01F4 8F 3C 00045                    MOVZWL   #500, R3
                              52 D4 0004A 1$:                   CLRL     I
                              18 11 0004C                       BRB      5$
       02 00000000G EF       04 ED 0004E 2$:                   CMPZV    #4, #4, GCA+208, #2
                              04 14 00057                       BGTR     3$
                              06 DD 00059                       PUSHL    #6
                              02 11 0005B                       BRB      4$
                              0B DD 0005D 3$:                   PUSHL    #11
                   00000000G EF 01 FB 0005F 4$:                CALLS    #1, CLH
                         E4 52 53 F3 00066 5$:                  AOBLEQ   R3, I, 2$
                              18 A5 D4 0006A 6$:                CLRL     PHAN+32                                   ; 0467
                           07 34 A5 E9 0006D                    BLBC     PHAN+60, 7$                               ; 0472
                   00000000G EF 00 FB 00071                     CALLS    #0, BWAIT                                 ; 0474
                              04 00078 7$:                      RET                                                ; 0476
```

; Routine Size: 121 bytes,   Routine Base: $CODE$ + 019A

```
; 352      0477 1
; 353      0478 1 END
; 354      0479 0 ELUDOM                                      ! End of mod.le
```

PSECT SUMMARY

```
    Name                      Bytes                    Attributes

  $CODE$                       531  NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
```

Library Statistics

```
              -------- Symbols --------      Pages      Processing
```

SKIPL   Perform all modes of line skiping   J 6   VAX-11 Bliss-32 V4.C-742   Page 13
V04-000   UFORM -- throw blank lines to top-of-page   16-Sep-1984 01:47:33   DISK$VMSMASTER:[RUNOFF.SRC]SKIPL.BLI;1 (6)
                                                              14-Sep-1984 13:08:09

File	Total	Loaded	Percent	Mapped	Time
_255DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_255DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	38	3	86	00:00.3

COMMAND QUALIFIERS

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

Size: 531 code + 0 data bytes
Run Time: 00:10.0
Elapsed Time: 00:28.0
Lines/CPU Min: 2888
Lexemes/CPU-Min: 19706
Memory Used: 78 pages
Compilation Complete

STD
LIS

SUBST
LIS

SETDAT
LIS

STC
LIS

TITLES
LIS

STYLE
LIS

SCANT
LIS

TOPPAG
LIS

STKFRM
LIS

SKIPL
LIS

SUBPAG
LIS

SCL
LIS

SKPSEP
LIS

STHL
LIS

SETTIM
LIS