```
EEEEEEEEEEEEEEEE    DDDDDDDDDD       TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDD       TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDD       TTTTTTTTTTTTTTTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEEEEEEEEEEEE       DDD       DDD          TTT
EEEEEEEEEEEEE       DDD       DDD          TTT
EEEEEEEEEEEEE       DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEE                 DDD       DDD          TTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDD             TTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDD             TTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDD             TTT
```

FILEID**SCRNCOL

```
SSSSSSSS   CCCCCCC   RRRRRRR   NN     NN   CCCCCCC   000000   LL
SSSSSSSS   CCCCCCC   RRRRRRR   NN     NN   CCCCCCC   000000   LL
SS         CC        RR   RR   NN     NN   CC        00   00  LL
SS         CC        RR   RR   NN     NN   CC        00   00  LL
SS         CC        RR   RR   NNNN   NN   CC        00   00  LL
SS         CC        RR   RR   NNNN   NN   CC        00   00  LL
SSSSSSS    CC        RRRRRRR   NN NN  NN   CC        00   00  LL
SSSSSS     CC        RRRRRRR   NN NN  NN   CC        00   00  LL
     SS    CC        RR  RR    NN   NNNN   CC        00   00  LL
     SS    CC        RR  RR    NN   NNNN   CC        00   00  LL
     SS    CC        RR   RR   NN     NN   CC        00   00  LL
     SS    CC        RR   RR   NN     NN   CC        00   00  LL
SSSSSSSS   CCCCCCC   RR    RR  NN     NN   CCCCCCC   000000   LLLLLLLLLL    ....
SSSSSSSS   CCCCCCC   RR    RR  NN     NN   CCCCCCC   000000   LLLLLLLLLL    ....


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 'EDT$SCRNCOL - compute new column position'
    2    0002   0   MODULE EDT$SCRNCOL (                              ! Compute new column position
    3    0003   0                   IDENT = 'V04-000'                ! File: SCRNCOL.BLI Edit: JBS1003
    4    0004   0                   ) =
    5    0005   1   BEGIN
    6    0006   1
    7    0007   1   !*****************************************************************************
    8    0008   1   !*                                                                          *
    9    0009   1   !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
   10    0010   1   !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
   11    0011   1   !*  ALL RIGHTS RESERVED.                                                    *
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   16    0016   1   !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
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   19    0019   1   !*                                                                          *
   20    0020   1   !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
   21    0021   1   !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
   22    0022   1   !*  CORPORATION.                                                            *
   23    0023   1   !*                                                                          *
   24    0024   1   !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
   25    0025   1   !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
   26    0026   1   !*                                                                          *
   27    0027   1   !*                                                                          *
   28    0028   1   !*****************************************************************************
   29    0029   1
   30    0030   1
   31    0031   1   !++
   32    0032   1   ! FACILITY:     EDT -- The DEC Standard Editor
   33    0033   1   !
   34    0034   1   ! ABSTRACT:
   35    0035   1   !
   36    0036   1   !     This module computes a new column position for vertical moves.
   37    0037   1   !
   38    0038   1   ! ENVIRONMENT:  Runs at any access mode - AST reentrant
   39    0039   1   !
   40    0040   1   ! AUTHOR: Bob Kushlis, CREATION DATE: September 8, 1979
   41    0041   1   !
   42    0042   1   ! MODIFIED BY:
   43    0043   1   !
   44    0044   1   ! 1-001 - Original. DJS 12-Feb-1981.  This module was created by
   45    0045   1   !          extracting the routine EDT$$SC_CPUNEWCOLPOS  from module SCREEN.
   46    0046   1   ! 1-002 - Regularize headers.  JBS 13-Mar-1981
   47    0047   1   ! 1-003 - Avoid using the screen data base, since the current line may not
   48    0048   1   !          be on the screen.  JBS 10-Sep-1982
   49    0049   1   !--
   50    0050   1
```

```
 52      0051  1  %SBTTL 'Declarations'
 53      0052  1  !
 54      0053  1  !  TABLE OF CONTENTS:
 55      0054  1  !
 56      0055  1
 57      0056  1  REQUIRE 'EDTSRC:TRAROUNAM';
 58      0495  1
 59      0496  1  FORWARD ROUTINE
 60      0497  1      EDT$$SC_CPUNEWCOLPOS : NOVALUE;
 61      0498  1
 62      0499  1  !
 63      0500  1  !  INCLUDE FILES:
 64      0501  1  !
 65      0502  1
 66      0503  1  REQUIRE 'EDTSRC:EDTREQ';
 67      0638  1
 68      0639  1  !
 69      0640  1  !  MACROS:
 70      0641  1  !
 71      0642  1  !      NONE
 72      0643  1  !
 73      0644  1  !  EQUATED SYMBOLS:
 74      0645  1  !
 75      0646  1  !      NONE
 76      0647  1  !
 77      0648  1  !  OWN STORAGE:
 78      0649  1  !
 79      0650  1  !      NONE
 80      0651  1  !
 81      0652  1  !  EXTERNAL REFERENCES:
 82      0653  1  !
 83      0654  1  !      In the routine
```

I 4

EDT$SCRNCOL   EDT$SCRNCOL - compute new column position   16-Sep-1984 01:37:16   VAX-11 Bliss-32 V4.0-742   Page   3
V04-000   EDT$$SC_CPUNEWCOLPOS - compute new column posi 14-Sep-1984 12:24:33   DISK$VMSMASTER:[EDT.SRC]SCRNCOL.BLI;1   (3)

```
 85   0655  1  %SBTTL 'EDT$$SC_CPUNEWCOLPOS  - compute new column position'
 86   0656  1
 87   0657  1  GLOBAL ROUTINE EDT$$SC_CPUNEWCOLPOS                        ! Compute new column position
 88   0658  1     : NOVALUE =
 89   0659  1
 90   0660  1  !++
 91   0661  1  ! FUNCTIONAL DESCRIPTION:
 92   0662  1  !
 93   0663  1  !       This routine computes a new column position for vertical moves.  When
 94   0664  1  !       any command other than a vertical arrow which moves the cursor is executed
 95   0665  1  !       this procedure is called to get the new column position for vertical moves.
 96   0666  1  !       The column position is kept in EDT$$G_COL .
 97   0667  1  !
 98   0668  1  ! FORMAL PARAMETERS:
 99   0669  1  !
100   0670  1  !       NONE
101   0671  1
102   0672  1  ! IMPLICIT INPUTS:
103   0673  1  !
104   0674  1  !       EDT$$T_LN_BUF
105   0675  1  !       EDT$$A_LN_PTR
106   0676  1  !
107   0677  1  ! IMPLICIT OUTPUTS:
108   0678  1  !
109   0679  1  !       EDT$$G_COL
110   0680  1  !
111   0681  1  ! ROUTINE VALUE:
112   0682  1  !
113   0683  1  !       NONE
114   0684  1  !
115   0685  1  ! SIDE EFFECTS:
116   0686  1  !
117   0687  1  !       NONE
118   0688  1  !
119   0689  1  !--
120   0690  1
121   0691  2      BEGIN
122   0692  2
123   0693  2      EXTERNAL ROUTINE
124   0694  2          EDT$$FMT_CHWID;                               ! Compute the width of a character
125   0695  2
126   0696  2      EXTERNAL
127   0697  2          EDT$$G_COL,                                   ! The column we should be on.
128   0698  2          EDT$$T_LN_BUF,                                ! Current line buffer.
129   0699  2          EDT$$A_LN_PTR;                                ! Current character pointer.
130   0700  2
131   0701  2      LOCAL
132   0702  2          COL_POINT;
133   0703  2
134   0704  2      COL_POINT = EDT$$T_LN_BUF;
135   0705  2      EDT$$G_COL = 0;
136   0706  2
137   0707  2      WHILE CH$PTR_NEQ (.COL_POINT,.EDT$$A_LN_PTR) DO
138   0708  2          EDT$$G_COL = .EDT$$G_COL + EDT$$FMT_CHWID (CH$RCHAR_A (COL_POINT), .EDT$$G_COL);
139   0709  1
140   0710  1      END;                                             ! of routine EDT$$SC_CPUNEWCOLPOS
```

```
                                                              .TITLE   EDT$SCRNCOL EDT$SCRNCOL - compute new column po
;                                                                                sition
                                                              .IDENT   \V04-000\

                                                              .EXTRN   EDT$$FMT_CHWID, EDT$$G_COL
                                                              .EXTRN   EDT$$T_LN_BUF, EDT$$A_LN_PTR

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

                                     000C 00000              .ENTRY   EDT$$SC_CPUNEWCOLPOS, Save R2,R3          ; 0657
                 53 00000000G 00  9E 00002                   MOVAB    EDT$$G_COL, R3
                 52 00000000G 00  9E 00009                   MOVAB    EDT$$T_LN_BUF, COL_POINT                 ; 0704
                              63  D4 00010                   CLRL     EDT$$G_COL                               ; 0705
     00000000G 00             52  D1 00012 1$:               CMPL     COL_POINT, EDT$$A_LN_PTR                 ; 0707
                              11  13 00019                   BEQL     2$
                              63  DD 0001B                   PUSHL    EDT$$G_COL                               ; 0708
                          7E  82  9A 0001D                   MOVZBL   (COL_POINT)+, -(SP)
     00000000G 00         02  FB 00020                       CALLS    #2, EDT$$FMT_CHWID
                          63  50  C0 00027                   ADDL2    R0, EDT$$G_COL
                          E6  11 0002A                       BRB      1$
                          04 0002C 2$:                       RET                                               ; 0710

; Routine Size: 45 bytes,    Routine Base: _EDT$CODE + 0000

;  141           0711  1
;  142           0712  1 !<BLF/PAGE>
```

```
EDT$SCRNCOL    EDT$SCRNCOL - compute new column position       16-Sep-1984 01:37:16    VAX-11 Bliss-32 V4.0-742       Page  5
V04-000        EDT$$SC_CPUNEWCOLPOS - compute new column posi  14-Sep-1984 12:24:33    DISK$VMSMASTER:[EDT.SRC]SCRNCOL.BLI;1   (4)
```

```
;  144         0713  1 END                                              ! of module EDT$SCRNCOL
;  145         0714  1
;  146         0715  0 ELUDOM
```

```
;                              PSECT SUMMARY

;        Name                    Bytes                        Attributes

;   _EDT$CODE                      45   NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
```

```
;                      Library Statistics

;                                        -------- Symbols --------    Pages      Processing
;        File                             Total   Loaded   Percent    Mapped     Time

;   _$255$DUA28:[EDT.SRC]EDT.L32;1          377        1        0        40       00:00.2
;   _$255$DUA28:[EDT.SRC]PSECTS.L32;1         2        1       50         7       00:00.1
```

```
;                      COMMAND QUALIFIERS

;      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:SCRNCOL/OBJ=OBJ$:SCRNCOL MSRC$:SCRNCOL.BLI/UPDATE=(ENH$:SCRNCOL
;      )
```

```
; Size:             45 code + 0 data bytes
; Run Time:            00:09.4
; Elapsed Time:        00:11.7
; Lines/CPU Min:        4544
; Lexemes/CPU-Min: 12165
; Memory Used:  56 pages
; Compilation Complete
```

SCRRESET
LIS

SCRRLIN
LIS

SCRRELPOS
LIS

SCRINSERT
LIS

SCRNOSCR
LIS

SCRNCOL
LIS

SCRMCOL
LIS

SCRUPDATE
LIS

SCRINIT
LIS

SCRNEWINS
LIS

SCRREGION
LIS

SCRREPMOD
LIS

SCRREV
LIS

SCRNEWDEL
LIS

SCRNOREV
LIS

SCRMOVETO
LIS

SCRINSMOD
LIS