



```

SSSSSSSS  CCCCCCCC  RRRRRRRR  RRRRRRRR  LL  IIIIII  NN  NN
SSSSSSSS  CCCCCCCC  RRRRRRRR  RRRRRRRR  LL  IIIIII  NN  NN
SS        CC        RR      RR  RR      RR  LL  II     NN  NN
SS        CC        RR      RR  RR      RR  LL  II     NN  NN
SS        CC        RR      RR  RR      RR  LL  II     NNNN  NN
SSSSSS    CC        RRRRRRRR  RRRRRRRR  LL  II     NNNN  NN
SSSSSS    CC        RRRRRRRR  RRRRRRRR  LL  II     NN  NN
SS        CC        RR  RR    RR  RR    RR  LL  II     NN  NN
SS        CC        RR  RR    RR  RR    RR  LL  II     NN  NN
SS        CC        RR  RR    RR  RR    RR  LL  II     NN  NN
SS        CC        RR  RR    RR  RR    RR  LL  II     NN  NN
SSSSSSSS  CCCCCCCC  RR      RR  RR      RR  LL  IIIIII  NN  NN
SSSSSSSS  CCCCCCCC  RR      RR  RR      RR  LL  IIIIII  NN  NN

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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

```

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1 0001 0 %TITLE 'EDT$SCRRLIN - refresh a screen line'
2 0002 0 MODULE EDT$SCRRLIN ( ! Refresh a screen line
3 0003 0 IDENT = 'V04-000' ! File: SCRRLIN.BLI Edit: REM1034
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
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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 refreshes a single line on the screen.
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 RFRELN from module SCREEN.
46 0046 1 1-002 - Regularize headers. JBS 13-Mar-1981
47 0047 1 1-003 - Change [EOB] to user defined string STS 06-Oct-1981
48 0048 1 1-004 - Do an absolute cursor position before writing the blob at
49 0049 1 end of line, to avoid running off the edge of the screen.
50 0050 1 Also, show the blob only if the text exceeds the screen
51 0051 1 width. JBS 02-Apr-1982
52 0052 1 1-005 - Show characters all the way to end edge of the screen. JBS 06-Apr-1982
53 0053 1 1-006 - Worry about wide characters at the edge of the screen. JBS 15-Apr-1982
54 0054 1 1-007 - Continue work on edit 1-006. JBS 16-Apr-1982
55 0055 1 1-008 - Always show [EOB] (or whatever text it has been set to) in non-reverse
56 0056 1 video. JBS 16-Apr-1982
57 0057 1 1-009 - Make the edge of the screen logic work on a VT100, which clears its

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58 0058 1 : wrap flag only when a character is printed. JBS 19-Apr-1982
59 0059 1 1-010 - Don't erase the message lines if an error occurs during select.
60 0060 1 SMB 01-Jul-1982
61 0061 1 1-011 - Fix bug introduced by edit 1-010. SMB 20-Jul-1982
62 0062 1 1-012 - Add check for message flag to erasure of screen. SMB 23-Jul-1982
63 0063 1 1-013 - Change the flag checked in edit 1-012. SMB 28-Jul-1982
64 0064 1 1-014 - Go back to edit 1-012. SMB 17-Aug-1982
65 0065 1 1-015 - Modify fo the new screen updater. SMB 24-Sep-1982
66 0066 1 1-016 - Simplify for the new screen update logic. This version always repaints
67 0067 1 any changed line. JBS 30-Sep-1982
68 0068 1 1-017 - Remove unused external declaration of EDT$$FMT_LIT. JBS 05-Oct-1982
69 0069 1 1-018 - Fix painting of select range. JBS 08-Oct-1982
70 0070 1 1-019 - Put call to fsetcol in line. STS 11-Oct-1982
71 0071 1 1-020 - Start work on NOTRUNCATE mode. JBS 11-Oct-1982
72 0072 1 1-021 - Debug NOTRUNCATE mode. JBS 12-Oct-1982
73 0073 1 1-022 - Fix the call to EDT$$FMT_CHWID. JBS 13-Oct-1982
74 0074 1 1-023 - Add the second argument. JBS 23-Oct-1982
75 0075 1 1-024 - Use SCR_EDIT_MINPOS. JBS 28-Oct-1982
76 0076 1 1-025 - Be sure to print at least one character before the last character
77 0077 1 of a line, so we won't be hit by the VT100's autowrap. JBS 10-Nov-1982
78 0078 1 1-026 - Set the final MINPOS to CHR TO, so CHMEINPUT's text won't have to be rewritten. JBS 02-Dec-1982
79 0079 1 1-027 - Change the handling of EDT$$G SHF. JBS 14-Dec-1982
80 0080 1 1-028 - Maintain and use SCR_EDIT_MAXPOS. JBS 27-Dec-1982
81 0081 1 1-029 - Don't erase to end of line if we do not repaint the whole line. JBS 27-Dec-1982
82 0082 1 1-030 - Put the most common cases of character formatting in-line, to improve speed. JBS 04-Jan-1983
83 0083 1 1-031 - Be sure the blob is painted with correct video attributes. JBS 21-Mar-1983
84 0084 1 1-032 - Make sure we are in replace mode. JBS 01-Apr-1983
85 0085 1 1-033 - Adjust the width of a tab if it is at the front of a continued line. JBS 03-May-1983
86 0086 1 1-034 - Fix bug where if the EOB marker displays in the last column of the
87 0087 1 screen, it was deleted when we attempted to delete to end of line.
88 0088 1 The bug happened only if advancing to that line without clearing the
89 0089 1 screen first. REM 12-Dec-1983
90 0090 1 --
91 0091 1
```

```

: 93 0092 1 %SBTTL 'Declarations'
: 94 0093 1
: 95 0094 1 TABLE OF CONTENTS:
: 96 0095 1
: 97 0096 1
: 98 0097 1 REQUIRE 'EDT$SRC:TRAROUNAM';
: 99 0536 1
100 0537 1 FORWARD ROUTINE
101 0538 1 EDT$SSC_RFRELN : NOVALUE;
102 0539 1
103 0540 1
104 0541 1 INCLUDE FILES:
105 0542 1
106 0543 1
107 0544 1 REQUIRE 'EDT$SRC:EDTREQ';
108 0679 1
109 0680 1
110 0681 1 MACROS:
111 0682 1
112 0683 1 NONE
113 0684 1
114 0685 1 EQUATED SYMBOLS:
115 0686 1
116 0687 1 NONE
117 0688 1
118 0689 1 OWN STORAGE:
119 0690 1
120 0691 1 NONE
121 0692 1
122 0693 1 EXTERNAL REFERENCES:
123 0694 1
: 124 0695 1 In the routine
```

```
: 126 0696 1 %SBTTL 'EDTSSC_RFRELN - refresh a line on the screen'
: 127 0697 1
: 128 0698 1 GLOBAL ROUTINE EDTSSC_RFRELN (          ! Refresh a line on the screen
: 129 0699 1     SCRPTR,          ! address of line info being refreshed
: 130 0700 1     ERASED          ! 1 = line has been erased
: 131 0701 1     ) : NOVALUE =
: 132 0702 1
: 133 0703 1 **
: 134 0704 1  FUNCTIONAL DESCRIPTION:
: 135 0705 1
: 136 0706 1     This routine refreshes a single line on the screen. It expects EDTSSG_CS_LNO
: 137 0707 1     to be the screen line number to be refreshed. This routine operates only on
: 138 0708 1     the specified line; it does not clear the screen after an [EOB], for example.
: 139 0709 1
: 140 0710 1  FORMAL PARAMETERS:
: 141 0711 1
: 142 0712 1     SCRPTR          Pointer to the screen block for the line being refreshed
: 143 0713 1
: 144 0714 1     ERASED          1 = the line has already been erased
: 145 0715 1
: 146 0716 1  IMPLICIT INPUTS:
: 147 0717 1
: 148 0718 1     EDTSSG_CS_LNO
: 149 0719 1     EDTSSA_SEC_BUF
: 150 0720 1     EDTSSG_SHF
: 151 0721 1     EDTSSG_TI_WID
: 152 0722 1     EDTSSA_WK_LN
: 153 0723 1     EDTSSG_FMT_LNPOS
: 154 0724 1     EDTSSA_CUR_TBCB
: 155 0725 1     EDTSSA_EOB_SCRPTR
: 156 0726 1     EDTSSA_FMT_CUR
: 157 0727 1     EDTSSG_PRV_COL
: 158 0728 1     EDTSSG_FMT_BUF
: 159 0729 1     EDTSSG_INSERT_MODE
: 160 0730 1
: 161 0731 1  IMPLICIT OUTPUTS:
: 162 0732 1
: 163 0733 1     EDTSSA_FMT_CUR
: 164 0734 1     EDTSSG_PRV_COL
: 165 0735 1
: 166 0736 1  ROUTINE VALUE:
: 167 0737 1
: 168 0738 1     NONE
: 169 0739 1
: 170 0740 1  SIDE EFFECTS:
: 171 0741 1
: 172 0742 1     Writes on the screen.
: 173 0743 1
: 174 0744 1  --
: 175 0745 1
: 176 0746 2  BEGIN
: 177 0747 2
: 178 0748 2  EXTERNAL ROUTINE
: 179 0749 2     EDTSSFMT_CH : NOVALUE,          ! Output a character
: 180 0750 2     EDTSSFMT_CHWID,          ! Compute the width of a character
: 181 0751 2     EDTSSC_SHWLOB : NOVALUE,    ! Output a blob
: 182 0752 2     EDTSSC_REVIDCHK : NOVALUE,  ! Check for reverse video based on select region
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183 0753 2      EDTSSSC_NONREVID : NOVALUE,      ! Go to normal video
184 0754 2      EDTSSSC_POSCSIF : NOVALUE,     ! Position the cursor
185 0755 2      EDTSSSC_ERATOFOL : NOVALUE,    ! Erase to end of line
186 0756 2      EDTSSSC_ERAALL : NOVALUE,     ! Erase to end of screen
187 0757 2      EDTSSFMT_TEXT : NOVALUE,      ! Print [EOB]
188 0758 2      EDTSSOUT_FMTBUF : NOVALUE,    ! Output the format buffer
189 0759 2      EDTSSSC_REP_MODE : NOVALUE;    ! Put the screen in replace mode
190 0760
191 0761 2      EXTERNAL
192 0762 2      EDTSSA_EOB_SCRPTR : REF SCREEN_LINE, ! Special line block for [EOB]
193 0763 2      EDTSSG_CS_LNO,                ! current screen line
194 0764 2      EDTSSA_SEC_BUF,                ! select buffer.
195 0765 2      EDTSSG_SHF,                    ! The number of columns shifted.
196 0766 2      EDTSSG_TI_WID,                 ! Width of terminal line.
197 0767 2      EDTSSA_WK_LN : REF LIN_BLOCK,  ! Current line pointer.
198 0768 2      EDTSSG_FMT_LNPOS,              ! Current column number
199 0769 2      EDTSSA_CUR_BUF : REF TBCB_BLOCK, ! Pointer to current text control block
200 0770 2      EDTSSA_FMT_CUR,                 ! Pointer to next char in output buffer
201 0771 2      EDTSSG_FMT_BUF : BLOCK [CH$ALLOCATION (EDTSSK_FMT_BUFLEN)], ! Output buffer
202 0772 2      EDTSSG_PRV_COL,                 ! The cursor column number
203 0773 2      EDTSSG_INSERT_MODE;           ! 1 = screen is in insert mode
204 0774
205 0775
206 0776 2      MAP
207 0777 2      SCRPTR : REF SCREEN_LINE;
208 0778
209 0779 2      LOCAL
210 0780 2      TXTPTR,
211 0781 2      ORIG_TXTPTR,
212 0782 2      LEN,
213 0783 2      CHAR,
214 0784 2      CHAR_WIDTH,
215 0785 2      LEFT,
216 0786 2      FIRST_CHAR,
217 0787 2      WIDTH,
218 0788 2      SIMPLE_CHAR,
219 0789 2      MAXPOS;
220 0790
221 0791 2      !+ Make sure we are in replace mode.
222 0792 2      !-
223 0793
224 0794 2      IF (.EDTSSG_INSERT_MODE NEQ 0) THEN EDTSSSC_REP_MODE ();
225 0795
226 0796 2      !+ Check for EOB.
227 0797 2      !-
228 0798
229 0799
230 0800 2      IF (.SCRPTR EQLA .EDTSSA_EOB_SCRPTR)
231 0801 2      THEN
232 0802 2      BEGIN
233 0803 2      EDTSSSC_POSCSIF (.EDTSSG_CS_LNO, 0);
234 0804 2      EDTSSSC_NONREVID ();
235 0805 2      EDTSSFMT_TEXT (0);
236 0806
237 0807
238 0808 2      IF (( NOT .ERASED) AND (.SCRPTR [SCR_EDIT_MAXPOS] EQL 255))
239 0809 2      THEN ! If not erased and not at end of the line,

```

```
240 0810 4 BEGIN
241 0811 4 !! EDTSSC_POSCSIF (.EDTSSG_CS_LNO, MAX (0, .EDTSSG_FMT_LNPOS - .EDTSSG_SHF));
242 0812 4 !! EDTSSC_ERATOEOEOL () ! erase any extra characters that may
243 0813 4 !! ! have been left on the screen's line.
244 0814 4
245 0815 4 END;
246 0816 4
247 0817 4 + Mark the line as finished with its edit.
248 0818 4 -
249 0819 4 SCRPTR [SCR_EDIT_MINPOS] = 255;
250 0820 4 SCRPTR [SCR_EDIT_MAXPOS] = 0;
251 0821 4 SCRPTR [SCR_EDIT_FLAGS] = .SCRPTR [SCR_EDIT_FLAGS] AND ( NOT (SCR_EDIT_MODIFY OR SCR_EDIT_INSLN));
252 0822 4 RETURN;
253 0823 4 END;
254 0824 4
255 0825 4 +
256 0826 4 + Not EOB. Position to the first character to be updated in the line,
257 0827 4 + keeping track of the screen column which it will occupy.
258 0828 4 -
259 0829 4 WIDTH = .EDTSSG_TI_WID + .EDTSSG_SHF;
260 0830 4 LEFT = .SCRPTR [SCR_CHR_FROM];
261 0831 4 LEN = MIN (.SCRPTR [SCR_CHR_TO] + 1, .EDTSSA_WK_LN [LIN_LENGTH]) - .LEFT;
262 0832 4 TXTPTR = CH$PLUS (EDTSSA_WK_LN [LIN_TEXT], .LEFT);
263 0833 4 ORIG_TXTPTR = .TXTPTR;
264 0834 4 EDTSSG_FMT_LNPOS = 0;
265 0835 4 CHAR = CH$RCHAR_A (TXTPTR);
266 0836 4
267 0837 4 IF ((.CHAR GEQ 'X'20') AND (.CHAR LEQ 'X'7E'))
268 0838 4 THEN
269 0839 4 BEGIN
270 0840 4 CHAR_WIDTH = 1;
271 0841 4 SIMPLE_CHAR = 1;
272 0842 4 END
273 0843 4 ELSE
274 0844 4 BEGIN
275 0845 4 CHAR_WIDTH = EDTSSFMT_CHWID (.CHAR, .EDTSSG_FMT_LNPOS);
276 0846 4 SIMPLE_CHAR = 0;
277 0847 4 END;
278 0848 4
279 0849 4 +
280 0850 4 + Skip over unmodified characters on this line.
281 0851 4 -
282 0852 4
283 0853 4 WHILE (((.TXTPTR - .ORIG_TXTPTR) LEQ .SCRPTR [SCR_EDIT_MINPOS]) AND !
284 0854 4 (.LEN GTR 0) AND
285 0855 4 (.EDTSSG_FMT_LNPOS LSS (.WIDTH - .CHAR_WIDTH - 1))) DO
286 0856 4 BEGIN
287 0857 4 +
288 0858 4 + Account for the blob at the front of continued lines.
289 0859 4 -
290 0860 4
291 0861 4 IF ((.EDTSSG_FMT_LNPOS EQL 0) AND (.SCRPTR [SCR_LINE_IDX] NEQ 0))
292 0862 4 THEN
293 0863 4 BEGIN
294 0864 4 +
295 0865 4 + Adjust for the blob at the front of a continued line. This code requires
296 0866 4 + that the shift amount always be a multiple of 8, so that shifting doesn't
```



```
297 0867 4 | change tab stops.
298 0868 4 | -
299 0869 4 |     EDT$$G_FMT_LNPOS = .EDT$$G_SHF + 2;
300 0870 4 |
301 0871 5 |     IF (.CHAR EQL ASC_K_TAB)
302 0872 4 |     THEN
303 0873 5 |         BEGIN
304 0874 5 |             CHAR_WIDTH = .CHAR_WIDTH - 2;
305 0875 5 |             ASSERT (.CHAR_WIDTH EQL 6);
306 0876 4 |             END;
307 0877 4 |
308 0878 4 |         END;
309 0879 4 |
310 0880 3 |     EDT$$G_FMT_LNPOS = .EDT$$G_FMT_LNPOS + .CHAR_WIDTH;
311 0881 3 |     LEN = .LEN - 1;
312 0882 3 |     CHAR = CHRCHAR_A (TXTPTR);
313 0883 3 |
314 0884 4 |     IF ((.CHAR GEQ XX'20') AND (.CHAR LEQ XX'7E'))
315 0885 3 |     THEN
316 0886 4 |         BEGIN
317 0887 4 |             CHAR_WIDTH = 1;
318 0888 4 |             SIMPCE_CHAR = 1;
319 0889 4 |             END
320 0890 3 |         ELSE
321 0891 4 |             BEGIN
322 0892 4 |             CHAR_WIDTH = EDT$$FMT_CHWID (.CHAR, .EDT$$G_FMT_LNPOS);
323 0893 4 |             SIMPCE_CHAR = 0;
324 0894 4 |             END;
325 0895 3 |
326 0896 2 |         END;
327 0897 2 |
328 0898 2 | +
329 0899 2 | | Put the characters into the format buffer.
330 0900 2 | -
331 0901 2 |     FIRST_CHAR = 1;
332 0902 2 | +
333 0903 2 | | If this is a continued line, indicate this at the front of the line.
334 0904 2 | -
335 0905 2 |
336 0906 3 |     IF ((.SCRPTR [SCR_LINE_IDX] NEQ 0) AND (.EDT$$G_FMT_LNPOS EQL 0))
337 0907 2 |     THEN
338 0908 3 |         BEGIN
339 0909 3 |             EDT$$G_FMT_LNPOS = .EDT$$G_SHF;
340 0910 3 |             EDT$$$C_POCSIF (.EDT$$G_CS_LNO, .EDT$$G_FMT_LNPOS - .EDT$$G_SHF);
341 0911 3 |             FIRST_CHAR = 0;
342 0912 3 |
343 0913 4 |             IF (.EDT$$A_SEL_BUF EQL .EDT$$A_CUR_BUF)
344 0914 3 |             THEN
345 0915 3 |                 EDT$$$C_REVIDCHK (CHSDIFF (.TXTPTR, CHSPTR (EDT$$A_WK_LN [LIN_TEXT])) - 1);
346 0916 3 |
347 0917 3 |             EDT$$$C_SHWBLOB ();
348 0918 3 |             EDT$$FMT_CH (XC' ');
349 0919 3 |
350 0920 4 |             IF (.CHAR EQL ASC_K_TAB)
351 0921 3 |             THEN
352 0922 4 |                 BEGIN
353 0923 4 |                     CHAR_WIDTH = .CHAR_WIDTH - 2;
```

```
354 0924 4          ASSERT (.CHAR_WIDTH EQL 6);
355 0925 4          END;
356 0926 4
357 0927 4          END;
358 0928 4
359 0929 4          MAXPOS = .SCRPTR [SCR_EDIT_MAXPOS];
360 0930 4
361 0931 4          + This is the loop that actually puts characters into the format buffer for output to the screen.
362 0932 4          - The time around this loop is critical to EDT's performance in screen mode.
363 0933 4          -
364 0934 4
365 0935 4          WHILE ((.LEN GTR 0) AND (.EDT$$G_FMT_LNPOS LSS (.WIDTH - .CHAR_WIDTH)) AND !
366 0936 4          ((.TXTPTR - .ORIG_TXTPTR - 1) LEQ .MAXPOS)) DO
367 0937 4          BEGIN
368 0938 4
369 0939 4          IF (.EDT$$A_SEL_BUF EQL .EDT$$A_CUR_BUF) !
370 0940 4          THEN
371 0941 4          EDT$$SC_REVIDCHK (CHSDIFF (.TXTPTR, CHSPTR (EDT$$A_WK_LN [LIN_TEXT])) - 1);
372 0942 4
373 0943 4          IF (.EDT$$G_FMT_LNPOS GEQ .EDT$$G_SHF)
374 0944 4          THEN
375 0945 4          BEGIN
376 0946 4
377 0947 4          IF .FIRST_CHAR
378 0948 4          THEN
379 0949 4          BEGIN
380 0950 4          EDT$$SC_POSCSIF (.EDT$$G_CS_LNO, .EDT$$G_FMT_LNPOS - .EDT$$G_SHF);
381 0951 4          FIRST_CHAR = 0;
382 0952 4          END;
383 0953 4
384 0954 4          + Put the character in the format buffer.
385 0955 4          - Do simple characters in-line; call EDT$$FMT_CH for complex characters.
386 0956 4          -
387 0957 4
388 0958 4
389 0959 4          IF .SIMPLE_CHAR
390 0960 4          THEN
391 0961 4          BEGIN
392 0962 4          EDT$$G_FMT_LNPOS = .EDT$$G_FMT_LNPOS + 1;
393 0963 4
394 0964 4          IF (.EDT$$A_FMT_CUR EQLA CHSPTR (EDT$$T_FMT_BUF, EDT$$K_FMT_BUFLN))
395 0965 4          THEN
396 0966 4          BEGIN
397 0967 4          + We have reached the end of the buffer; empty it.
398 0968 4          -
399 0969 4
400 0970 4
401 0971 4          LOCAL
402 0972 4          SAV_LNPOS;
403 0973 4
404 0974 4          SAV_LNPOS = .EDT$$G_FMT_LNPOS;
405 0975 4          EDT$$OUT_FMTBUF ();
406 0976 4          EDT$$G_FMT_LNPOS = .SAV_LNPOS;
407 0977 4          END;
408 0978 4
409 0979 4          CH$WCHAR_A (.CHAR, EDT$$A_FMT_CUR);
410 0980 4
```

```
411 0981 5          IF (.EDTSSG_PRV_COL NEQ (.EDTSSG_TI_WID - 1)) THEN EDTSSG_PRV_COL = .EDTSSG_PRV_COL + 1;
412 0982 5
413 0983 5          END
414 0984 4          ELSE
415 0985 4          EDTSSFMT_CH (.CHAR);
416 0986 4
417 0987 4          END
418 0988 4          ELSE
419 0989 3          EDTSSG_FMT_LNPOS = .EDTSSG_FMT_LNPOS + .CHAR_WIDTH;
420 0990 3
421 0991 3          LEN = .LEN - 1;
422 0992 3          CHAR = CHSRCHAR_A (TXTPTR);
423 0993 3
424 0994 4          IF ((.CHAR GEQ 'X'20') AND (.CHAR LEQ 'X'7E'))
425 0995 3          THEN
426 0996 4              BEGIN
427 0997 4                  CHAR_WIDTH = 1;
428 0998 4                  SIMPCE_CHAR = 1;
429 0999 4                  END
430 1000 3          ELSE
431 1001 4              BEGIN
432 1002 4                  CHAR_WIDTH = EDTSSFMT_CHWID (.CHAR, .EDTSSG_FMT_LNPOS);
433 1003 4                  SIMPCE_CHAR = 0;
434 1004 3                  END;
435 1005 3
436 1006 2          END;
437 1007 2
438 1008 2
439 1009 2          + If we have not finished the line, it may be because the line won't fit on the screen.
440 1010 2          Since the loop above stops one column short of the right edge of the screen, there
441 1011 2          may be just room for one more character; if so, put it out.  If not, put a blob in the
442 1012 2          last column.
443 1013 2          -
444 1014 2
445 1015 3          IF ((.LEN GTR 0) AND ((.TXTPTR - .ORIG_TXTPTR - 1) LEQ .MAXPOS))
446 1016 2          THEN
447 1017 3              BEGIN
448 1018 3
449 1019 4                  IF ((.LEN EQL 1) AND (.EDTSSG_FMT_LNPOS EQL (.WIDTH - .CHAR_WIDTH)) AND
450 1020 4                      (.EDTSSG_FMT_LNPOS GEQ .EDTSSG_SHF))
451 1021 3                  THEN
452 1022 4                      BEGIN
453 1023 4
454 1024 5                          IF (.EDTSSA_SEL_BUF EQL .EDTSSA_CUR_BUF)
455 1025 4                          THEN
456 1026 4                              EDTSSC_REVIDCHK (CHSDIFF (.TXTPTR, CHSPTR (EDTSSA_WK_LN [LIN_TEXT])) - 1);
457 1027 4
458 1028 4                          IF .FIRST_CHAR
459 1029 4                          THEN
460 1030 5                              BEGIN
461 1031 5                                  EDTSSC_POSCSIF (.EDTSSG_CS_LNO, .EDTSSG_FMT_LNPOS - .EDTSSG_SHF);
462 1032 5                                  FIRST_CHAR = 0;
463 1033 4                              END;
464 1034 4
465 1035 4                          EDTSSFMT_CH (.CHAR);
466 1036 4                          LEN = .LEN - 1;
467 1037 4                          END
```

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468 1038 3      ELSE
469 1039 4      BEGIN
470 1040 4
471 1041 5      IF (( NOT .ERASED) AND (.SCRPTR [SCR_EDIT_MAXPOS] EQL 255))
472 1042 4      THEN
473 1043 5      BEGIN
474 1044 5      EDT$$$SC_POSCSIF (.EDT$$G_CS_LNO, MAX (0, .EDT$$G_FMT_LNPOS - .EDT$$G_SHF));
475 1045 5      EDT$$$SC_ERATOEOOL ();
476 1046 4      END;
477 1047 4
478 1048 4      !+
479 1049 4      ! If there is room left on the line, it may be that we have printed no characters.
480 1050 4      ! Therefore, print a space to be sure that the VT100's autowrap flag is not set.
481 1051 4      !-
482 1052 4
483 1053 4      IF (.EDT$$G_FMT_LNPOS LSS (.EDT$$G_TI_WID - 1)) THEN EDT$$FMT_CH (' ');
484 1054 4
485 1055 4      EDT$$$SC_POSCSIF (.EDT$$G_CS_LNO, .EDT$$G_TI_WID - 1);
486 1056 4      EDT$$$SC_SHWBLOB ();
487 1057 4      END;
488 1058 4
489 1059 3      END
490 1060 3      !+
491 1061 3      ! Throw in an erase to end of line sequence if we have painted as close as we can to the right margin.
492 1062 3      ! Suppress the sequence if we have just put a character at the right margin or if the line is already erased
493 1063 3      !-
494 1064 2      ELSE
495 1065 2
496 1066 2      IF (( NOT .ERASED) AND (.SCRPTR [SCR_EDIT_MAXPOS] EQL 255))
497 1067 2      THEN
498 1068 2      BEGIN
499 1069 2
500 1070 2      IF .FIRST_CHAR THEN EDT$$$SC_POSCSIF (.EDT$$G_CS_LNO, MAX (0  EDT$$G_FMT_LNPOS - .EDT$$G_SHF));
501 1071 2
502 1072 2      EDT$$$SC_ERATOEOOL ();
503 1073 2      END;
504 1074 2
505 1075 2      !+
506 1076 2      ! Mark the line as finished with its edit.
507 1077 2      !-
508 1078 2      SCRPTR [SCR_EDIT_MINPOS] = MIN (.SCRPTR [SCR_CHR_TO] - .SCRPTR [SCR_CHR_FROM] + 1, 255);
509 1079 2      SCRPTR [SCR_EDIT_MAXPOS] = 0;
510 1080 2      SCRPTR [SCR_EDIT_FLAGS] = .SCRPTR [SCR_EDIT_FLAGS] AND ( NOT (SCR_EDIT_MODIFY OR SCR_EDIT_INSLN));
511 1081 1      END;
! of routine EDT$$$SC_RFRELN

```

```

.TITLE EDT$SCRRLIN EDT$SCRRLIN - refresh a screen line
.IDENT \V04-000\

.EXTRN EDT$$FMT_CH, EDT$$FMT_CHWID
.EXTRN EDT$$$SC_SHWBLOB
.EXTRN EDT$$$SC_REVIDCHK
.EXTRN EDT$$$SC_NONREVID
.EXTRN EDT$$$SC_POSCSIF
.EXTRN EDT$$$SC_ERATOEOOL
.EXTRN EDT$$$SC_ERAALL, EDT$$FMT_TEXT
.EXTRN EDT$$OUT_FMTBUF

```

.EXTRN EDT\$\$\$SC\_REP\_MODE  
.EXTRN EDT\$\$\$A\_EOB\_SCRPTR  
.EXTRN EDT\$\$\$G\_CS\_LNO, EDT\$\$\$A\_SEL\_BUF  
.EXTRN EDT\$\$\$G\_SHF, EDT\$\$\$G\_TI\_WID  
.EXTRN EDT\$\$\$A\_WK\_LN, EDT\$\$\$G\_FMT\_LNPOS  
.EXTRN EDT\$\$\$A\_CUR\_BUF, EDT\$\$\$A\_FMT\_CUR  
.EXTRN EDT\$\$\$T\_FMT\_BUF, EDT\$\$\$G\_PRV\_COL  
.EXTRN EDT\$\$\$G\_INSERT\_MODE  
.EXTRN EDT\$\$\$INTER\_ERR

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

OFFC 00000

.ENTRY EDT\$\$\$SC\_RFRELN, Save R2,R3,R4,R5,R6,R7,R8,- : 0698  
R9,R10,R11  
SUBL2 #4, SP  
TSTL EDT\$\$\$G\_INSERT\_MODE : 0794  
BEQL 1\$  
CALLS #0, EDT\$\$\$SC\_REP\_MODE  
MOVL SCRPTR, R4 : 0800  
CML R4, EDT\$\$\$A\_EOB\_SCRPTR  
BNEQ 3\$  
CLRL -(SP) : 0803  
PUSHL EDT\$\$\$G\_CS\_LNO  
CALLS #2, EDT\$\$\$SC\_POSCSIF : 0804  
CALLS #0, EDT\$\$\$SC\_NONREVID : 0805  
CLRL -(SP)  
CALLS #1, EDT\$\$\$G\_FMT\_TEXT : 0808  
BLBS ERASED, 2\$  
CMPB 12(R4), #255  
BNEQ 2\$  
CALLS #0, EDT\$\$\$SC\_ERATOEOLE : 0812  
MNEGB #1, 11(R4) : 0819  
BRW 38\$ : 0820  
ADDL3 EDT\$\$\$G\_SHF, EDT\$\$\$G\_TI\_WID, WIDTH : 0829  
MOVZBL 9(R4), LEFT : 0830  
MOVZBL 10(R4), R2 : 0831  
INCL R2  
MOVL EDT\$\$\$A\_WK\_LN, R0  
CMPZV #0, #8, (R0), R2  
BGEQ 4\$  
MOVZBL (R0), R2  
SUBL3 LEFT, R2, LEN : 0832  
MOVAB 7(LEFT)(R0), TXTPTR : 0833  
MOVL TXTPTR, ORIG\_TXTPTR : 0834  
CLRL EDT\$\$\$G\_FMT\_LNPOS : 0835  
BRB 8\$ : 0845  
PUSHL EDT\$\$\$G\_FMT\_LNPOS : 0846  
PUSHL CHAR : 0846  
CALLS #2, EDT\$\$\$G\_FMT\_CHWID : 0846  
MOVL R0, CHAR\_WIDTH : 0846  
CLRL SIMPLE\_CHAR : 0846  
SUBL3 ORIG\_TXTPTR, TXTPTR, R0 : 0853  
CMPZV #0, #8, 11(R4), R0 : 0853  
BLSS 9\$ : 0854  
TSTL LEN : 0854  
BLEQ 9\$ : 0854  
SUBL3 CHAR\_WIDTH, WIDTH, R0 : 0855

5E 00000000G 04 C2 00002  
00 D5 00005  
07 13 0000B  
00000000G 00 00 FB 0000D 1\$:  
54 04 AC D0 00014  
00000000G 00 54 D1 00018  
38 12 0001F  
7E D4 00021  
00000000G 00 DD 00023  
00000000G 00 02 FB 00029  
00000000G 00 00 FB 00030  
7E D4 00037  
00000000G 00 01 FB 00039  
0E 08 AC E8 00040  
FF 8F 0C A4 91 00044  
07 12 00049  
00000000G 00 00 FB 0004B  
0B A4 01 8E 00052 2\$:  
036F 31 C0056  
53 00000000G 00 00000000G 00 C1 00059 3\$:  
51 09 A4 9A 00065  
52 0A A4 9A 00069  
52 D6 0006D  
50 00000000G 00 D0 0006F  
08 00 ED 00076  
03 18 0007B  
52 60 9A 0007D  
5B 52 51 C3 00080 4\$:  
52 07 A140 9E 00084  
6E 52 D0 00089  
00000000G 00 D4 0008C  
69 11 00092  
00000000G 00 DD 00094 5\$:  
59 DD 0009A  
00000000G 00 02 FB 0009C  
55 50 D0 000A3  
57 D4 000A6  
50 52 6E C3 000A8 6\$:  
0B A4 00 ED 000AC  
62 19 000B2  
58 D5 000B4  
5E 15 000B6  
50 53 55 C3 000B8

		50	D7	000BC	DECL	R0			
	50	00000000G	00	D1	000BE	CMPL	EDT\$\$G_FMT_LNPOS, R0		
			4F	18	000C5	BGEQ	9\$		
		00000000G	00	D5	000C7	TSTL	EDT\$\$G_FMT_LNPOS	0861	
			25	2	000CD	BNEQ	7\$		
		08	A4	95	000CF	TSTB	8(R4)		
			20	13	000D2	BEQL	7\$		
00000000G	00	00000000G	00	02	C1	000D4	ADDL3	#2, EDT\$\$G_SHF, EDT\$\$G_FMT_LNPOS	0869
	09		59	D1	000E0	CMPL	CHAR, #9	0871	
			0F	12	000E3	BNEQ	7\$		
	55		02	C2	000E5	SUBL2	#2, CHAR WIDTH	0874	
	06		55	D1	000E8	CMPL	CHAR_WIDTH, #6	0875	
			07	13	000EB	BEQL	7\$		
	00000000G	00	00	FB	000ED	CALLS	#0, EDT\$\$INTER_ERR		
	00000000G	00	55	C0	000F4	ADDL2	CHAR_WIDTH, EDT\$\$G_FMT_LNPOS	0880	
			5B	D7	000FB	DECL	LEN	0881	
	59		82	9A	000FD	MOVZBL	(TXTPTR)+, CHAR	0882	
	20		59	D1	00100	CMPL	CHAR, #32	0884	
			8F	19	00103	BLSS	5\$		
	0000007E	8F	59	D1	00105	CMPL	CHAR, #126		
			86	14	0010C	BGTR	5\$		
	55		01	D0	0010E	MOVL	#1, CHAR WIDTH	0887	
	57		01	D0	00111	MOVL	#1, SIMPLE_CHAR	0888	
			92	11	00114	BRB	6\$		
	58		01	D0	00116	MOVL	#1, FIRST_CHAR	0901	
		08	A4	95	00119	TSTB	8(R4)	0906	
			70	13	0011C	BEQL	11\$		
		00000000G	00	D5	0011E	TSTL	EDT\$\$G_FMT_LNPOS		
			68	12	00124	BNEQ	11\$		
	50	00000000G	00	D0	00126	MOVL	EDT\$\$G_SHF, R0	0909	
	00000000G	00	50	D0	0012D	MOVL	R0, EDT\$\$G_FMT_LNPOS		
7E	00000000G	00	50	C3	00134	SUBL3	R0, EDT\$\$G_FMT_LNPOS, -(SP)	0910	
		00000000G	00	DD	0013C	PUSHL	EDT\$\$G_CS [NO		
	00000000G	00	02	FB	00142	CALLS	#2, EDT\$\$SC_POSCSIF		
			58	D4	00149	CLRL	FIRST_CHAR	0911	
	00000000G	00	00	D1	0014B	CMPL	EDT\$\$A_SEL_BUF, EDT\$\$A_CUR_BUF	0913	
			12	12	00156	BNEQ	10\$		
50		52	00	C3	00158	SUBL3	EDT\$\$A_WK_LN, TXTPTR, R0	0915	
		F8	A0	9F	00160	PUSHAB	-8(R0)		
	00000000G	00	01	FB	00163	CALLS	#1, EDT\$\$SC_REVIDCHK		
	00000000G	00	00	FB	0016A	CALLS	#0, EDT\$\$SC_SHWBLOB	0917	
			20	DD	00171	PUSHL	#32	0918	
	00000000G	00	01	FB	00173	CALLS	#1, EDT\$\$FMT_CH		
		09	59	D1	0017A	CMPL	CHAR, #9	0920	
			0F	12	0017D	BNEQ	11\$		
	55		02	C2	0017F	SUBL2	#2, CHAR WIDTH	0923	
	06		55	D1	00182	CMPL	CHAR_WIDTH, #6	0924	
			07	13	00185	BEQL	11\$		
	00000000G	00	00	FB	00187	CALLS	#0, EDT\$\$INTER_ERR		
		5A	A4	9A	0018E	MOVZBL	12(R4), MAXPOS	0929	
			5B	D5	00192	TSTL	LEN	0935	
			03	14	00194	BGTR	14\$		
			00FB	31	00196	BRW	23\$		
50		53	55	C3	00199	SUBL3	CHAR WIDTH, WIDTH, R0		
		50	00	D1	0019D	CMPL	EDT\$\$G_FMT_LNPOS, R0		
			F0	18	001A4	BGEQ	13\$		
50		52	6E	C3	001A6	SUBL3	ORIG_TXTPTR, TXTPTR, R0	0936	

		50	D7	001AA	DECL	R0			
	5A	50	D1	001AC	CMPL	R0	MAXPOS		
		E5	14	001AF	BGTR	13\$			
	00000000G	00	D1	001B1	CMPL	EDT\$\$A_SEL_BUF, EDT\$\$A_CUR_BUF		0939	
		12	12	001BC	BNEQ	15\$			
50	52	00000000G	00	C3	001BE	SUBL3	EDT\$\$A_WK_LN, TXTPTR, R0	0941	
		FB	A0	9F	001C6	PUSHAB	-8(R0)		
	00000000G	00	01	FB	001C9	CALLS	#1, EDT\$\$\$SC REVIDCHK		
	51	00000000G	00	D0	001D0	15\$:	EDT\$\$G_FMT_LNPOS, R1	0943	
	50	00000000G	00	D0	001D7	MOVL	EDT\$\$G_SHF, R0		
	50		51	D1	001DE	CMPL	R1, R0		
			78	19	001E1	BLSS	19\$		
	13		58	E9	001E3	BLBC	FIRST_CHAR, 16\$	0947	
7E	51		50	C3	001E6	SUBL3	R0, RT, -(SP)	0950	
	00000000G	00	00	DD	001EA	PUSHL	EDT\$\$G_CS_LNO		
			02	FB	001F0	CALLS	#2, EDT\$\$\$SC_POSCSIF		
			58	D4	001F7	CLRL	FIRST_CHAR	0951	
	54		57	E9	001F9	16\$:	BLBC	SIMPLE_CHAR, 18\$	0959
	00000000G	00	D6	001FC	INCL	EDT\$\$G_FMT_LNPOS		0962	
	50	00000000G	00	9E	00202	MOVAB	EDT\$\$T_FMT_BUF+512, R0	0964	
	50	00000000G	00	D1	00209	CMPL	EDT\$\$A_FMT_CUR, R0		
			15	12	00210	BNEQ	17\$		
	56	00000000G	00	D0	00212	MOVL	EDT\$\$G_FMT_LNPOS, SAV_LNPOS	0974	
00000000G	00		00	FB	00219	CALLS	#0, EDT\$\$\$OOT_FMTBUF	0975	
00000000G	00		56	D0	00220	MOVL	SAV_LNPOS, EDT\$\$G_FMT_LNPOS	0976	
	50	00000000G	00	D0	00227	17\$:	MOVL	EDT\$\$A_FMT_CUR, R0	0979
	60		59	90	0022E	MOVB	CHAR, (R0)		
	00000000G	00	D6	00231	INCL	EDT\$\$A_FMT_CUR			
50	00000000G	00	01	C3	00237	SUBL3	#1, EDT\$\$G_TI_WID, R0	0981	
	50	00000000G	00	D1	0023F	CMPL	EDT\$\$G_PRV_COL, R0		
			1A	13	00246	BEQL	20\$		
	00000000G	00	D6	00248	INCL	EDT\$\$G_PRV_COL			
			12	11	0024E	BRB	20\$	0959	
			59	DD	00250	18\$:	PUSHL	CHAR	0985
	00000000G	00	01	FB	00252	CALLS	#1, EDT\$\$FMT_CH		
			07	11	00259	BRB	20\$	0943	
	00000000G	00	55	C0	0025B	19\$:	ADDL2	CHAR_WIDTH, EDT\$\$G_FMT_LNPOS	0989
			58	D7	00262	20\$:	DECL	LEN	0991
	59		82	9A	00264	MOVZBL	(TXTPTR)+, CHAR	0992	
	20		59	D1	00267	CMPL	CHAR, #32	0994	
			11	19	0026A	BLSS	21\$		
0000007E	8F		59	D1	0026C	CMPL	CHAR, #126		
			08	14	00273	BGTR	21\$		
	55		01	D0	00275	MOVL	#1, CHAR_WIDTH	0997	
	57		01	D0	00278	MOVL	#1, SIMPCE_CHAR	0998	
			14	11	0027B	BRB	22\$	0994	
	00000000G	00	DD	0027D	21\$:	PUSHL	EDT\$\$G_FMT_LNPOS	1002	
			59	DD	00283	PUSHL	CHAR		
00000000G	00		02	FB	00285	CALLS	#2, EDT\$\$FMT_CHWID		
	55		50	D0	0028C	MOVL	R0, CHAR_WIDTH		
			57	D4	0028F	CLRL	SIMPLE_CHAR	1003	
			FEFE	31	00291	22\$:	BRW	12\$	0935
			58	D5	00294	23\$:	TSTL	LEN	1015
			03	14	00296	BGTR	25\$		
			00DB	31	00298	24\$:	BRW	33\$	
50	52		6E	C3	0029B	25\$:	SUBL3	ORIG_TXTPTR, TXTPTR, R0	
			50	D7	0029F	DECL	R0		

5A		50	D1	002A1	CMPL	R0, MAXPOS				
		F2	14	002A4	BGTR	24\$				
01		5B	D1	002A6	CMPL	LEN, #1	1019			
		62	12	002A9	BNEQ	28\$				
53		55	C2	002AB	SUBL2	CHAR WIDTH, R3				
53	00000000G	00	D1	002AE	CMPL	EDTSSG_FMT_LNPOS, R3				
		56	12	002B5	BNEQ	28\$				
00000000G	00	00000000G	00	D1	002B7	CMPL	EDTSSG_FMT_LNPOS, EDTSSG_SHF	1020		
		49	19	002C2	BLSS	28\$				
00000000G	00	00000000G	00	D1	002C4	CMPL	EDTSSA_SEL_BUF, EDTSSA_CUR_BUF	1024		
		11	12	002CF	BNEQ	26\$				
52	00000000G	00	C2	002D1	SUBL2	EDTSSA_WK_LN, R2	1026			
		F8	A2	9F	002D8	PUSHAB	-8(R2)			
00000000G	00		01	FB	002DB	CALLS	#1, EDTSSC_REVIDCHK			
1B		58	E9	002E2	26\$:	BLBC	FIRST CHAR, 27\$	1028		
7E	00000000G	00	00000000G	00	C3	002E5	SUBL3	EDTSSG_SHF, EDTSSG_FMT_LNPOS, -(SP)	1031	
		00000000G	00	DD	002F1	PUSHL	EDTSSG_CS_LNO			
00000000G	00		02	FB	002F7	CALLS	#2, EDTSSC_POSCSIF			
		58	D4	002FE	CLRL	FIRST_CHAR		1032		
00000000G	00		59	DD	00300	27\$:	PUSHL	CHAR	1035	
		01	FB	00302	CALLS	#1, EDTSSFMT_CH				
		5B	D7	00309	DECL	LEN		1036		
		67	11	0030B	BRB	32\$		1019		
	2D	08	AC	E8	0030D	28\$:	BLBS	ERASED, 30\$	1041	
	FF	8F	OC	A4	91	00311	CMPB	12(R4), #255		
50	00000000G	00	00000000G	00	12	00316	BNEQ	30\$		
		00	C3	00318	SUBL3	EDTSSG_SHF, EDTSSG_FMT_LNPOS, R0	1044			
		50	DD	00324	PUSHL	R0				
		02	18	00326	BGEQ	29\$				
		6E	D4	00328	CLRL	(SP)				
00000000G	00	00000000G	00	DD	0032A	29\$:	PUSHL	EDTSSG_CS_LNO		
		02	FB	00330	CALLS	#2, EDTSSC_POSCSIF				
00000000G	00		00	FB	00337	CALLS	#0, EDTSSC_ERATOEOI	1045		
50	00000000G	00	01	C3	0033E	30\$:	SUBL3	#1, EDTSSG_TI_WID, R0	1053	
		50	00000000G	00	D1	00346	CMPL	EDTSSG_FMT_LNPOS, R0		
		09	18	0034D	BGEQ	31\$				
		20	DD	0034F	PUSHL	#32				
00000000G	00		01	FB	00351	CALLS	#1, EDTSSFMT_CH			
7E	00000000G	00	01	C3	00358	31\$:	SUBL3	#1, EDTSSG_TI_WID, -(SP)	1055	
		00000000G	00	DD	00360	PUSHL	EDTSSG_CS_LNO			
00000000G	00		02	FB	00366	CALLS	#2, EDTSSC_POSCSIF			
00000000G	00		00	FB	0036D	CALLS	#0, EDTSSC_SHWBLOB	1056		
		34	11	00374	32\$:	BRB	36\$	1015		
		30	08	AC	E8	00376	33\$:	BLBS	ERASED, 36\$	1066
	FF	8F	OC	A4	91	0037A	CMPB	12(R4), #255		
		29	12	0037F	BNEQ	36\$				
50	00000000G	00	00000000G	00	58	E9	00381	BLBC	FIRST CHAR, 35\$	1070
		00	C3	00384	SUBL3	EDTSSG_SHF, EDTSSG_FMT_LNPOS, R0				
		50	DD	00390	PUSHL	R0				
		02	18	00392	BGEQ	34\$				
		6E	D4	00394	CLRL	(SP)				
00000000G	00	00000000G	00	DD	00396	34\$:	PUSHL	EDTSSG_CS_LNO		
		02	FB	0039C	CALLS	#2, EDTSSC_POSCSIF				
00000000G	00		00	FB	003A3	35\$:	CALLS	#0, EDTSSC_ERATOEOI	1072	
		50	0A	A4	9A	003AA	36\$:	MOVZBL	10(R4), R0	1078
		51	09	A4	9A	003AE	MOVZBL	9(R4), R1		
		50		51	C2	003B2	SUBL2	R1, R0		



EDT\$SCRRLIN  
V04-000

EDT\$SCRRLIN - refresh a screen line  
EDT\$SC\_RFRELN - refresh a line on the screen

E 11  
16-Sep-1984 01:40:29  
14-Sep-1984 12:24:38

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]SCRRLIN.BLI;1

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(3)

000000FF	8F		50	D6	003B5		INCL	R0		
			50	D1	003B7		CMPL	R0	#255	
			04	15	003BE		BLEQ	37\$		
	50	FF	8F	9A	003C0		MOVZBL	#255, R0		
0B	A4		50	90	003C4	37\$:	MOVB	R0, 11(R4)		
0C	A4	03FF	8F	AA	003C8	38\$:	BICW2	#1023, 12(R4)		
			04	003CE			RET			

1080  
1081

; Routine Size: 975 bytes, Routine Base: \_EDT\$CODE + 0000

: 512 1082 1  
: 513 1083 1 !<BLF/PAGE>

EDT  
V04

EDT\$SCRRLIN  
V04-000

EDT\$SCRRLIN - refresh a screen line  
EDT\$SSC\_RFRELN - refresh a line on the screen

F 11  
16-Sep-1984 01:42:29  
14-Sep-1984 12:24:38

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]SCRRLIN.BLI;1

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(4)

: 515 1084 1 END  
: 516 1085 1  
: 517 1086 0 ELUDOM

: of module EDT\$SCRRLIN

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	975	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$_255\$DUA28:[EDT.SRC]EDT.L32;1	377	48	12	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\$:SCRRLIN/OBJ=OBJ\$:SCRRLIN MSRC\$:SCRRLIN.BLI/UPDATE=(ENH\$:SCRRLIN)

: Size: 975 code + 0 data bytes  
: Run Time: 00:36.5  
: Elapsed Time: 00:43.0  
: Lines/CPU Min: 1787  
: Lexemes/CPU-Min: 7088  
: Memory Used: 246 pages  
: Compilation Complete

EDT  
V04

