

EEEEEEEEEEEEEEEE	DDDDDDDDDDDD	TTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDD	TTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDD	TTTTTTTTTTTTTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
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EEE	DDD	TTT
EEE	DDD	TTT
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1 0001 0 %TITLE 'EDT$SCRINIT - initialize for screen mode'
2 0002 0 MODULE EDT$SCRINIT ( ! Initialize for screen mode
3 0003 0 IDENT = 'V04-000' ! File: SCRINIT.BLI Edit: REM1021
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 *
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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 initializes the screen for change mode editing.
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 INIT from module SCREEN.
46 0046 1 1-002 - Regularize headers. JBS 13-Mar-1981
47 0047 1 1-003 - Initialize for NOKEYPAD mode also. SMB 1-Mar-1982
48 0048 1 1-004 - Don't turn off autowrap. JBS 02-Apr-1982
49 0049 1 1-005 - Make sure we are in GO. JBS 26-May-1982
50 0050 1 1-006 - Remove edit 1-005. Always sending an SI means we are
51 0051 1 sending a control O. EDT's automatic test procedures
52 0052 1 cannot handle control O's. JBS
53 0053 1 1-007 - Send "exit hold-screen mode" to a VT52. JBS 30-Aug-1982
54 0054 1 1-008 - New screen update logic. JBS 13-Sep-1982
55 0055 1 1-009 - Do more initialization of screen update globals. SMB 20-Sep-1982
56 0056 1 1-010 - Set up an EOB screen pointer. SMB 05-Oct-1982
57 0057 1 1-011 - Remove an unreferenced external declaration. JBS 09-Oct-1982

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58 0058 1 1-012 - Force the cursor to the upper left corner. JBS 15-Oct-1982
59 0059 1 1-013 - Fix the way memory is added to the free list. SMB 17-Oct-1982
60 0060 1 1-014 - Don't fool with the screen data base. JBS 29-Oct-1982
61 0061 1 1-015 - Make sure the scrolling region is really set. JBS 18-Jan-1983
62 0062 1 1-016 - Force a cursor positioning sequence to 'home'. SMB 14-Feb-1983
63 0063 1 1-017 - Do miscellaneous setups first, to be sure terminal will respond
64 0064 1 correctly to subsequent setups. JBS 23-Feb-1983
65 0065 1 1-018 - Set the width also, in case this is a VT100. JBS 24-Feb-1983
66 0066 1 1-019 - If this is a VT100, make sure it is in replace mode. JBS 01-Apr-1983
67 0067 1 1-020 - Add DECSTR, in case this is an advanced terminal. JBS 28-Jul-1983
68 0068 1 1-021 - Enhanced support of DECSTR to prevent its being sent to VT100s or any
69 0069 1 other terminal that, according to EDT$SG_DEC_CRT, should not receive
70 0070 1 it. REM 29-Feb-1984
71 0071 1 --
72 0072 1
```

```

74 0073 1 %SBTTL 'Declarations'
75 0074 1
76 0075 1 | TABLE OF CONTENTS:
77 0076 1 |
78 0077 1 |
79 0078 1 REQUIRE 'EDT$SRC:TRAROUNAM';
80 0517 1
81 0518 1 FORWARD ROUTINE
82 0519 1   EDT$SC_INIT : NOVALUE;
83 0520 1
84 0521 1 |
85 0522 1 | INCLUDE FILES:
86 0523 1 |
87 0524 1 |
88 0525 1 REQUIRE 'EDT$SRC:EDTREQ';
89 0660 1
90 0661 1 |
91 0662 1 | MACROS:
92 0663 1 |
93 0664 1 | +
94 0665 1 | The following macros specify the strings used to initialize the terminals. After this
95 0666 1 | initialization more characters are sent to the terminal to complete putting it in the
96 0667 1 | state that EDT expects.
97 0668 1 |
98 0669 1 | <BLF/NOFORMAT>
99 0670 1
100 0671 1 MACRO
101 0672 1   KEYPAD_MODE_STRING = %STRING (%CHAR (ASC_K_ESC), '=') %,           ! Application keypad mode
102 0673 1
103 0674 1   NOKEYPAD_MODE_STRING = %STRING (%CHAR (ASC_K_ESC), '>') %,       ! Numeric keypad mode
104 0675 1
105 M 0676 1   VT100_SETUP_STRING = %STRING (                                     ! VT100 initialization
106 M 0677 1     %CHAR (ASC_K_ESC), '\',                                         ! String terminator, in case we are in a REGIS string
107 M 0678 1     %CHAR (ASC_K_ESC), '<',                                           ! ANSI mode (in case we are in VT52 mode)
108 M 0679 1     %CHAR (ASC_K_ESC), '[?6l',                                     ! origin mode = absolute
109 M 0680 1     %CHAR (ASC_K_ESC), '[m',                                       ! video attributes = normal
110 M 0681 1     %CHAR (ASC_K_ESC), ')0',                                       ! select special graphics for G1 (leave G0 as set up by user
111 0682 1   ) %,
112 0683 1
113 M 0684 1   VT200_SETUP_STRING = %STRING (                                     ! VT200 initialization for 8 bit mode
114 M 0685 1     %CHAR (ASC_K_ESC), '\',                                         ! String terminator, in case we are in a REGIS string
115 M 0686 1     %CHAR (ASC_K_ESC), '<',                                           ! ANSI mode (in case we are in VT52 mode)
116 M 0687 1     %CHAR (ASC_K_CSI), '!p',                                       ! DECSTR, to set "future" features to normal state
117 M 0688 1     %CHAR (ASC_K_CSI), '?6lf',                                       ! origin mode = absolute
118 M 0689 1     %CHAR (ASC_K_CSI), 'm',                                       ! video attributes = normal
119 M 0690 1     %CHAR (ASC_K_ESC), ')0',                                       ! select special graphics for G1 (leave G0 as set up by user
120 0691 1   ) %,
121 0692 1
122 M 0693 1   VT200_7BIT_SETUP_STRING = %STRING (                                 ! VT200 initialization for 7 bit mode
123 M 0694 1     %CHAR (ASC_K_ESC), '\',                                         ! String terminator, in case we are in a REGIS string
124 M 0695 1     %CHAR (ASC_K_ESC), '<',                                           ! ANSI mode (in case we are in VT52 mode)
125 M 0696 1     %CHAR (ASC_K_ESC), '[!p',                                       ! DECSTR, to set "future" features to normal state
126 M 0697 1     %CHAR (ASC_K_ESC), '[?6lf',                                       ! origin mode = absolute
127 M 0698 1     %CHAR (ASC_K_ESC), '[m',                                       ! video attributes = normal
128 M 0699 1     %CHAR (ASC_K_ESC), ')0',                                       ! select special graphics for G1 (leave G0 as set up by user
129 0700 1   ) %,
130 0701 1

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: 131 M 0702 1 VT52_SETUP_STRING = %STRING ( ! VT52 initialization
: 132 M 0703 1 %CRAR (ASC_K_ESC), '\ ' ! Exit hold-screen mode
: 133 0704 1 ) %;
: 134 0705 1
: 135 0706 1 ! <BLF/FORMAT>
: 136 0707 1
: 137 0708 1 ! EQUATED SYMBOLS:
: 138 0709 1
: 139 0710 1
: 140 0711 1 BIND
: 141 0712 1 KEYPAD_MODE = UPLIT (BYTE (KEYPAD_MODE_STRING)),
: 142 0713 1 NOKEYPAD_MODE = UPLIT (BYTE (NOKEYPAD_MODE_STRING)),
: 143 0714 1 VT100_SETUP = UPLIT (BYTE (VT100_SETUP_STRING)),
: 144 0715 1 VT200_SETUP = UPLIT (BYTE (VT200_SETUP_STRING)),
: 145 0716 1 VT200_7BIT_SETUP = UPLIT (BYTE (VT200_7BIT_SETUP_STRING)),
: 146 0717 1 VT52_SETUP = UPLIT (BYTE (VT52_SETUP_STRING));
: 147 0718 1
: 148 0719 1 LITERAL
: 149 0720 1 KEYPAD_MODE_LEN = %CHARCOUNT (KEYPAD_MODE_STRING),
: 150 0721 1 NOKEYPAD_MODE_LEN = %CHARCOUNT (NOKEYPAD_MODE_STRING),
: 151 0722 1 VT100_SETUP_LEN = %CHARCOUNT (VT100_SETUP_STRING),
: 152 0723 1 VT200_SETUP_LEN = %CHARCOUNT (VT200_SETUP_STRING),
: 153 0724 1 VT200_7BIT_SETUP_LEN = %CHARCOUNT (VT200_7BIT_SETUP_STRING),
: 154 0725 1 VT52_SETUP_LEN = %CHARCOUNT (VT52_SETUP_STRING);
: 155 0726 1
: 156 0727 1 !
: 157 0728 1 ! OWN STORAGE:
: 158 0729 1
: 159 0730 1 ! NONE
: 160 0731 1
: 161 0732 1 ! EXTERNAL REFERENCES:
: 162 0733 1
: 163 0734 1 ! In the routine

```

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:
: 2
:

```

165 0735 1 %SBTTL 'EDTSSC_INIT - initialize for screen mode'
166 0736 1
167 0737 1 GLOBAL ROUTINE EDTSSC_INIT                ! Initialize for screen mode
168 0738 1 : NOVALUE =
169 0739 1
170 0740 1 !++
171 0741 1 ! FUNCTIONAL DESCRIPTION:
172 0742 1
173 0743 1 !       Initialize for screen mode.  The scrolling region is set up for VT100's,
174 0744 1 !       [no]keypad mode is set, and the globals pointing to the screen information
175 0745 1 !       structure are initialized to zero.
176 0746 1
177 0747 1 ! FORMAL PARAMETERS:
178 0748 1
179 0749 1 !       NONE
180 0750 1
181 0751 1 ! IMPLICIT INPUTS:
182 0752 1
183 0753 1 !       EDTSSG_DEC CRT
184 0754 1 !       EDTSSG_EIGHT_BIT
185 0755 1 !       EDTSSG_SCR_LNS
186 0756 1 !       EDTSSG_REVID
187 0757 1 !       EDTSSG_KPAD
188 0758 1 !       EDTSSG_TI_TYP
189 0759 1 !       EDTSSG_TI_WID
190 0760 1
191 0761 1 ! IMPLICIT OUTPUTS:
192 0762 1
193 0763 1 !       EDTSSG_REVID
194 0764 1 !       EDTSSG_TOP_SCREG
195 0765 1
196 0766 1 ! ROUTINE VALUE:
197 0767 1
198 0768 1 !       NONE
199 0769 1
200 0770 1 ! SIDE EFFECTS:
201 0771 1
202 0772 1 !       NONE
203 0773 1
204 0774 1 ! --
205 0775 1
206 0776 2 BEGIN
207 0777 2
208 0778 2 EXTERNAL ROUTINE
209 0779 2 EDTSSC_POSABS,                ! Position the cursor
210 0780 2 EDTSSC_SETSCLLREG,         ! Set the scrolling region
211 0781 2 EDTSSFMT_LIT : NOVALUE,    ! Output a string without interpretation
212 0782 2 EDTSSTI_ENTERCHM : NOVALUE, ! Set up terminal for change mode
213 0783 2 EDTSSC_SETWID,          ! Set the width on a VT100
214 0784 2 EDTSSC_REP_MODE;        ! Put the screen in replace (not insert) mode
215 0785 2
216 0786 2 EXTERNAL
217 0787 2 edt$$g_dec crt,              ! Cell indicating class of terminal
218 0788 2 edt$$g_eight bit,          ! True if terminal in EIGHT_BIT mode
219 0789 2 EDTSSG_SCR_LNS,          ! Number of screen lines
220 0790 2 EDTSSG_KPAD,            ! Keypad activated?
221 0791 2 EDTSSG_TI_TYP,          ! Terminal type.

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222 0792 2      EDT$$G_REVID,           ! 1 = screen is in reverse video
223 0793 2      EDT$$G_TOP_SCREG,      ! Top of the scrolling region
224 0794 2      EDT$$G_TI_WID;       ! Terminal width
225 0795 2
226 0796 2      +
227 0797 2      | Inform the terminal I/O routines we are entering screen mode
228 0798 2      | and set the scrolling region to text area.
229 0799 2      -
230 0800 2      EDT$$TI_ENTERCHM ();
231 0801 2      +
232 0802 2      | Set the terminal's parameters properly for EDT.
233 0803 2      -
234 0804 2
235 0805 2      IF (.edt$$g_ti_typ EQL term_vt100)
236 0806 2      THEN
237 0807 2      BEGIN
238 0808 2      SELECTONE .edt$$g_dec_crt OF
239 0809 2      SET
240 0810 2          [1] : edt$$fmt_lit (vt100_setup, vt100_setup_len);
241 0811 2          [2] :
242 0812 2              IF (.edt$$g_eight_bit) THEN
243 0813 2                  edt$$fmt_lit (vt200_setup, vt200_setup_len)
244 0814 2              ELSE
245 0815 2                  edt$$fmt_lit (vt200_7bit_setup, vt200_7bit_setup_len);
246 0816 2          [OTHERWISE] : assert(0);
247 0817 2      TES;
248 0818 2      edt$$sc_rep_mode ();
249 0819 2      END
250 0820 2      ELSE
251 0821 2      EDT$$FMT_LIT (VT52_SETUP, VT52_SETUP_LEN);
252 0822 2
253 0823 2      +
254 0824 2      | Set the terminal's width if it is a VT100.
255 0825 2      -
256 0826 2      EDT$$$SC_SETWID (.EDT$$G_TI_WID);
257 0827 2      +
258 0828 2      | Set the scrolling region the way EDT wants it.
259 0829 2      -
260 0830 2      EDT$$G_TOP_SCREG = 1;           ! Make sure control sequence is issued
261 0831 2      EDT$$$SC_SETSCLLREG (0, .EDT$$G_SCR_LNS);
262 0832 2      +
263 0833 2      | Force a cursor positioning sequence to 'home'. This may already have
264 0834 2      | been done for some terminals when the scrolling region or width was set.
265 0835 2      -
266 0836 2      EDT$$$SC_POSABS (0, 0);
267 0837 2      +
268 0838 2      | Either activate or deactivate the keypad.
269 0839 2      -
270 0840 2
271 0841 2      IF (.EDT$$G_KPAD)                 !
272 0842 2      THEN
273 0843 2      EDT$$FMT_LIT (KEYPAD_MODE, KEYPAD_MODE_LEN)
274 0844 2      ELSE
275 0845 2      EDT$$FMT_LIT (NOKEYPAD_MODE, NOKEYPAD_MODE_LEN);
276 0846 2
277 0847 2      EDT$$G_REVID = 0;                 ! The terminal is not in reverse video
278 0848 1      END;                           ! of routine EDT$$$SC_INIT
```



```

:
        .TITLE  EDT$SCRINIT EDT$SCRINIT - initialize for screen
        .IDENT  \V04-000\
        .PSECT  _EDT$CODE,NOWRT, SHR, PIC,2
                3D 1B 00000 P.AAA: .ASCII <27>\=\
                00002 .BLKB 2
                3E 1B 00004 P.AAB: .ASCII <27>\|\
                00006 .BLKB 2
1B 6D 5B 1B 6C 36 3F 5B 1B 3C 1B 5C 1B 00008 P.AAC: .ASCII <27><92><27>\|\<27>\[?6L\<27>\[m\<27>
30 29 00015 .ASCII \)0\
00017 .BLKB 1
        9B 6C 36 3F 9B 70 21 9B 3C 1B 5C 1B 00018 P.AAD: .ASCII <27><92><27>\|\<155>\!p\<155>\?6L\<155>
30 29 1B 6D 00024 .ASCII \m\<27>\)0\
6C 36 3F 5B 1B 70 21 5B 1B 3C 1B 5C 1B 00028 P.AAE: .ASCII <27><92><27>\|\<27>\[!p\<27>\[?6L\
30 29 1B 6D 5B 1B 00035 .ASCII <27>\[m\<27>\)0\
0003B .BLKB 1
                5C 1B 0003C P.AAF: .ASCII <27><92>
KEYPAD_MODE= P.AAA
NOKEYPAD_MODE= P.AAB
VT100_SETUP= P.AAC
VT200_SETUP= P.AAD
VT200_7BIT_SETUP= P.AAE
VT52_SETUP= P.AAF
        .EXTRN EDT$$$SC_POSABS, EDT$$$SC_SETSCLLREG
        .EXTRN EDT$$$FMT_LIT, EDT$$$TI_ENTERCHM
        .EXTRN EDT$$$SC_SETWID, EDT$$$SC_REP_MODE
        .EXTRN EDT$$$G_DEC_CRT, EDT$$$G_EIGHT_BIT
        .EXTRN EDT$$$G_SCR_LNS, EDT$$$G_KPAD
        .EXTRN EDT$$$G_TI_TYP, EDT$$$G_REVID
        .EXTRN EDT$$$G_TOP_SCREG
        .EXTRN EDT$$$G_TI_WID, EDT$$$INTER_ERR
        .ENTRY EDT$$$SC_INIT, Save R2,R3
000C 00000
53 00000000G 00 9E 00002 MOVAB EDT$$$FMT_LIT, R3
52 BE AF 9E 00009 MOVAB VT100_SETUP, R2
00000000G 00 FB 0000D CALLS #0, EDT$$$TI_ENTERCHM
02 00000000G 00 D1 00014 CMPL EDT$$$G_TI_TYP, #2
3F 12 0001B BNEQ 6$
50 00000000G 00 D0 0001D MOVL EDT$$$G_DEC_CRT, R0
01 50 D1 00024 CMPL R0, #1
06 12 00027 BNEQ 1$
0F DD 00029 PUSHL #15
52 DD 0002B PUSHL R2
18 11 0002D BRB 3$
02 50 D1 0002F 1$: CMPL R0, #2
18 12 00032 BNEQ 4$
07 00000000G 00 E9 00034 BLBC EDT$$$G_EIGHT_BIT, 2$
10 DD 0003B PUSHL #16
10 A2 9F 0003D PUSHAB VT200_SETUP
05 11 00040 BRB 3$
13 DD 00042 2$: PUSHL #19
20 A2 9F 00044 PUSHAB VT200_7BIT_SETUP
:
0737
0800
0805
0808
0810
0811
0812
0813
0815

```

	63		02	FB	00047	3\$:	CALLS	#2, EDTSSFMT_LIT	:	
			07	11	0004A		BRB	5\$:	0812
00000000G	00		00	FB	0004C	4\$:	CALLS	#0, EDT\$INTER_ERR	:	0816
00000000G	00		00	FB	00053	5\$:	CALLS	#0, EDTSSC_REP_MODE	:	0818
			08	11	0005A		BRB	7\$:	
			02	DD	0005C	6\$:	PUSHL	#2	:	0821
		34	A2	9F	0005E		PUSHAB	VT52_SETUP	:	
	63		02	FB	00061		CALLS	#2, EDTSSFMT_LIT	:	
		00000000G	00	DD	00064	7\$:	PUSHL	EDT\$G_TI_WID	:	0826
00000000G	00		01	FB	0006A		CALLS	#1, EDTSSC_SETWID	:	
00000000G	00		01	DD	00071		MOVL	#1, EDT\$G_TOP_SCREG	:	0830
		00000000G	00	DD	00078		PUSHL	EDT\$G_SCR_LNS-	:	0831
			7E	D4	0007E		CLRL	-(SP)	:	
00000000G	00		02	FB	00080		CALLS	#2, EDTSSC_SETSCLLREG	:	
			7E	7C	00087		CLRQ	-(SP)	:	0836
00000000G	00		02	FB	00089		CALLS	#2, EDTSSC_POSABS	:	
	07	00000000G	00	E9	00090		BLBC	EDT\$G_KPAD, 8\$:	0841
			02	DD	00097		PUSHL	#2	:	0843
		FB	A2	9F	00099		PUSHAB	KEYPAD_MODE	:	
			05	11	0009C		BRB	9\$:	
			02	DD	0009E	8\$:	PUSHL	#2	:	0845
		FC	A2	9F	000A0		PUSHAB	NOKEYPAD_MODE	:	
	63		02	FB	000A3	9\$:	CALLS	#2, EDTSSFMT_LIT	:	
		00000000G	00	D4	000A6		CLRL	EDT\$G_REVID	:	0847
			04	00	000AC		RET		:	0848

; Routine Size: 173 bytes, Routine Base: _EDT\$CODE + 003E

; 279 0849 1
; 280 0850 1 !<BLF/PAGE

EDT\$SCRINIT
V04-000

EDT\$SCRINIT - initialize for screen mode
EDT\$\$SC_INIT - initialize for screen mode

D 2
16-Sep-1984 01:34:38
14-Sep-1984 12:24:26

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]SCRINIT.BLI;1 Page 9 (4)

EDT\$
V04-

: 282 0851 1 END
: 283 0852 1
: 284 0853 0 ELUDOM

! of module EDT\$SCRINIT

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$COD:	235	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	4	1	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\$:SCRINIT/OBJ=OBJ\$:SCRINIT MSRC\$:SCRINIT.BLI/UPDATE=(ENH\$:SCRINIT)

: Size: 173 code + 62 data bytes
: Run Time: 00:14.9
: Elapsed Time: 00:18.9
: Lines/CPU Min: 3441
: Lexemes/CPU-Min: 11310
: Memory Used: 89 pages
: Compilation Complete

0139

AH-BT13A-SE
VAX/VMS V4.0

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This page contains a grid of 100 terminal window screenshots, arranged in 10 rows and 10 columns. Each window displays various system-related information and commands.

Key visible screenshots include:

- SCRESET LIS** and **SCRRLIN LIS** (top right section)
- SCRREPOS LIS** (second row, middle)
- SCRINOSCR LIS** (third row, middle)
- SCRNCOL LIS** (fourth row, middle)
- SCRMCOL LIS** (fifth row, middle)
- SCRUPDATE LIS** (sixth row, right)
- SCRINIT LIS** (seventh row, left)
- SCRNEWINS LIS** (seventh row, middle)
- SCRREGION LIS**, **SCRREPMOD LIS**, and **SCRREV LIS** (eighth row, middle)
- SCRNEWDEL LIS** and **SCRNOREV LIS** (ninth row, middle)
- SCRMOVETO LIS** (tenth row, middle)
- SCRINSMOD LIS** (bottom left)

Each screenshot typically shows a header with a name and version, followed by several lines of text representing system data or command output.