


```
SSSSSSSS  CCCCCCCC  RRRRRRRR  LL  I11111  BBBB8888
SSSSSSSS  CCCCCCCC  RRRRRRRR  LL  I11111  BBBB8888
SS         CC         RR         RR  LL         BB         BB
SS         CC         RR         RR  LL         BB         BB
SS         CC         RR         RR  LL         BB         BB
SS         CC         RR         RR  LL         BB         BB
SSSSSS    CC         RRRRRRRR  LL         BB888888
SSSSSS    CC         RRRRRRRR  LL         BB888888
          SS         RR  RR      LL         BB         BB
          SS         RR  RR      LL         BB         BB
          SS         RR  RR      LL         BB         BB
          SS         RR  RR      LL         BB         BB
SSSSSSSS  CCCCCCCC  RR         RR  LLLLLLLLLL  I11111  BBBB8888
SSSSSSSS  CCCCCCCC  RR         RR  LLLLLLLLLL  I11111  BBBB8888
          ....
          ....
          ....
          ....
```

```
LL         I11111  SSSSSSSS
LL         I11111  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  I11111  SSSSSSSS
LLLLLLLLLL  I11111  SSSSSSSS
```

: F
:

0001 0
0002 0
0003 0
0004 0
0005 0
0006 0
0007 0
0008 0
0009 0
0010 0
0011 0
0012 0
0013 0
0014 0
0015 0
0016 0
0017 0
0018 0
0019 0
0020 0
0021 0
0022 0
0023 0
0024 0
0025 0
0026 0
0027 0
0028 0
0029 0
0030 0
0031 0
0032 0
0033 0
0034 0
0035 0
0036 0
0037 0
0038 0
0039 0
0040 0
0041 0
0042 0
0043 0
0044 0
0045 0
0046 0
0047 0
0048 0
0049 0
0050 0
0051 0
0052 0
0053 0
0054 0
0055 0
0056 0
0057 0

```
Terminal Control Block Definitions for RTL SCRS facility
File: SCRTCB.REQ      Edit: RKR1001

Version: 'V04-000'

*****
*
* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
* ALL RIGHTS RESERVED.
*
* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
* TRANSFERRED.
*
* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
* CORPORATION.
*
* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
*
*****

++
FACILITY:      Screen Management

ABSTRACT:

This file contains the offsets for each variable in the Terminal Control
Block.  A TCB is allocated by the screen package for each channel/terminal.

AUTHOR: R. Reichert, CREATION DATE: 25-AUG-1982

MODIFIED BY:

1-001 - Original.  RKR 25-AUG-1982
--

+
Terminal control block
-----
MACRO
SCR$_FLINK      = 0, 0, 32, 0%,      ! Link pointer to next terminal
                                           control block
SCR$_BUFFER     = 4, 0, 32, 0%,      ! Address of buffer for buffer
                                           mode
SCR$_CHAN       = 8, 0, 16, 0%,      ! Channel number for this
                                           terminal
SCR$_TYPE       = 10, 0, 8, 0%,      ! Terminal type
```

```
0058 0 SCR$B_DEVTYPE = 11, 0, 8, 0% ; Device type ($DCDEF)
0059 0 SCR$W_DEVWIDTH = 12, 0, 16, 0% ; Line width in characters
0060 0 SCR$W_DEVPAGSIZ = 14, 0, 16, 0% ; Lines on screen
0061 0 SCR$S_DEVCHAR = 16, 0, 32, 0% ; Supported device characteristics
0062 0 SCR$S_AREA = 20, 0, 32, 0% ; Size of screen maps
0063 0 SCR$S_CHARMAP = 24, 0, 32, 0% ; Address of character array
0064 0 SCR$S_ATTRMAP = 28, 0, 32, 0% ; Address of attribute array
0065 0 SCR$S_MODFMAP = 32, 0, 32, 0% ; Address of modified bit map
0066 0 SCR$S_LINE = 36, 0, 32, 0% ; Current line
0067 0 SCR$S_COLUMN = 40, 0, 32, 0% ; Current column
0068 0 SCR$S_ATTRMASK = 44, 0, 32, 0% ; OR'd attributes for ATTRMAP
0069 0 SCR$S_STREAM = 48, 0, 32, 0% ; User-assigned stream number
0070 0 SCR$W_IFI = 52, 0, 16, 0% ; Context for RMS file calls
0071 0 SCR$W_ISI = 54, 0, 16, 0% ; Context for RMS record calls
0072 0 SCR$Q_RTNINFO = 56, 0, 64, 0% ; Quadword describing next two
0073 0 ; locations
0074 0 SCR$S_RTNADDR = 56, 0, 32, 0% ; Routine call-back address for
0075 0 ; output
0076 0 SCR$S_RTNARG = 60, 0, 32, 0% ; Argument to pass to routine
0077 0 SCR$S_CONTROL = 64, 0, 32, 0% ; Screen control flags
0078 0 SCR$V_SCROLL = 64, 0, 1, 0% ; Scrolling region active
0079 0 ; 1 = ON
0080 0 SCR$S_DEVDEPND2 = 68, 0, 32, 0% ; DEVDEPND2 as returned by
0081 0 ; GETDVI
0082 0 SCR$S_EFN = 72, 0, 32, 0% ; Event flag number to use for
0083 0 ; QIOs
0084 0 SCR$S_BUFSIZ = 76, 0, 32, 0% ; Size of buffer
0085 0 SCR$S_FTDATA = 80, 0, 32, 0% ; Data area for use by SCRFT (32 bytes)
0086 0 SCR$S_FAB = 112, 0, 32, 0% ; FAB alloc for output file
0087 0 SCR$S_RAB = 116, 0, 32, 0% ; RAB alloc for output fil
0088 0 ; *** next free area is loc 120 ***
0089 0
0090 0 LITERAL
0091 0 SCR$C_SIZE = 120; ; Size of block per terminal
```

0092 0
0093 0
0094 0
0095 0
0096 0
0097 0
0098 0
0099 0
0100 0
0101 0
0102 0
0103 0
0104 0
0105 0
0106 0
0107 0
0108 0
0109 0
0110 0
0111 0
0112 0
0113 0
0114 0
0115 0
0116 0
0117 0
0118 0
0119 0
0120 0
0121 0
0122 0
0123 0
0124 0
0125 0
0126 0
0127 0
0128 0
0129 0
0130 0
0131 0
0132 0
0133 0
0134 0
0135 0
0136 0
0137 0
0138 0
0139 0
0140 0
0141 0
0142 0
0143 0
0144 0
0145 0
0146 0
0147 0
0148 0

Terminal Definitions for RTL SCR\$ facility
File: SCRTERM.REQ Edit: PLL1001

Version: 'V04-000'

```
*****  
*  
* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
* ALL RIGHTS RESERVED.  
*  
* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
* TRANSFERRED.  
*  
* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
* CORPORATION.  
*  
* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
*  
*****
```

++
FACILITY: Screen Management

ABSTRACT:
This file contains terminal type definitions and escape sequences
which are needed by various routines in the screen package.

MODIFIED BY:
1-001 - Original. PLL 18-Oct-1982

+

Special characters

LITERAL			
BLANK	=	%X'20'	! blank (space)
BS	=	%X'08'	! Backspace
FF	=	%X'0C'	! Form feed
LF	=	%X'0A'	! Line feed
CR	=	%X'0D'	! Carriage return
ESC	=	%X'1B'	! Escape
LB	=	%X'5B'	! Left bracket (VT100)
SEMI	=	%X'3B'	! Semi-colon

```
0149 0      NULL      = %X'00';      ! Null
0150 0
0151 0
0152 0      +-----+
0153 0      | Miscellaneous constants
0154 0      |-----|
0155 0      LITERAL
0156 0      BUFSIZE   = 512;      ! Length of internal buffer in FOREIGN
0157 0      CB         = %X'1F';  ! Line/column bias in message
0158 0
0159 0      +-----+
0160 0      | Terminal type definitions
0161 0      |-----|
0162 0      LITERAL
0163 0      UNKNOWN    = 0;      ! Non-graphics or unknown type
0164 0      VT05       = 1;      ! VT05 series terminal
0165 0      VT52       = 2;      ! VT5x series terminal
0166 0      VT100      = 3;      ! VT100 series terminal
0167 0      VTFOREIGN  = 4;      ! Foreign terminal (FT1-8)
0168 0
0169 0
0170 0      +-----+
0171 0      | VT05 Codes
0172 0      |-----|
0173 0      LITERAL
0174 0      VT05_SC    = %X'0E';  ! Set cursor position
0175 0      VT05_HOME  = %X'1D';  ! Set cursor to home
0176 0      VT05_CUP   = %X'1A';  ! Cursor up
0177 0      VT05_EOL   = %X'1E';  ! Erase to end of line
0178 0      VT05_EOS   = %X'1F';  ! Erase to end of screen
0179 0
0180 0
0181 0      +-----+
0182 0      | VT52 Codes
0183 0      |-----|
0184 0      LITERAL
0185 0      VT52_SC    = %X'59';  ! Set cursor position
0186 0      VT52_HOME  = %X'48';  ! Set cursor to home
0187 0      VT52_DWN   = %X'49';  ! Down scroll
0188 0      VT52_EOS   = %X'4A';  ! Erase to end of screen
0189 0      VT52_EOL   = %X'4B';  ! Erase to end of line
0190 0
0191 0
0192 0      +-----+
0193 0      | VT100 Codes
0194 0      |-----|
0195 0      LITERAL
0196 0      VT100_SC    = %X'66';  ! Set cursor position
0197 0      VT100_DWN   = %X'4D';  ! Down scroll
0198 0      VT100_EOS   = %X'4A';  ! Erase to end of screen
0199 0      VT100_EOL   = %X'4B';  ! Erase to end of line
0200 0      VT100_SGR   = %X'6D';  ! Select graphic rendition
0201 0      VT100_SM    = %X'72';  ! Set scrolling region
0202 0
0203 0
```

COMMAND QUALIFIERS

BLISS/LIB=LIB\$:SCRLIB/LIS=LISS\$:SCRLIB SRC\$:SCRTCB.REQ+SRC\$:SCRTERM.REQ

: Run Time: 00:01.0
: Elapsed Time: 00:01.8
: Lines/CPU Min: 11825
: Lexemes/CPU-Min: 32155
: Memory Used: 15 pages
: Library Precompilation Complete

A grid of 10 columns and 14 rows of small terminal windows. Each window displays a list of files or system data. Several windows are highlighted with larger, bolded text:

- SYSCMSG LIS (Row 2, Column 13)
- SCRINPUT LIS and SCRMSC LIS (Row 3, Column 10)
- SCRRED LIS (Row 5, Column 11)
- SETPRIV LIS, SHRMMSG LIS, and TPARSE LIS (Row 6, Columns 12, 13, and 14)
- SCRIB LIS (Row 8, Column 10)
- SCRVECTOR LIS (Row 9, Column 11)
- SSMSG LIS (Row 10, Column 12)

The background windows contain text such as 'SYS\$DISK', 'SYS\$SHARE', and 'SYS\$SYSTEM', indicating a file directory or system configuration view.