



```

SSSSSSSS  CCCCCCCC  SSSSSSSS  VV      VV  FEEEEEEEE  CCCCCCCC
SSSSSSSS  CCCCCCCC  SSSSSSSS  VV      VV  FEEEEEEEE  CCCCCCCC
SS        CC        SS        VV      VV  FF          CC
SS        CC        SS        VV      VV  FF          CC
SS        CC        SS        VV      VV  FF          CC
SS        CC        SS        VV      VV  FF          CC
SSSSSSS   CC        SSSSSSS   VV      VV  FEEEEEEEE  CC
SSSSSSS   CC        SSSSSSS   VV      VV  FEEEEEEEE  CC
SS        CC        SS        VV      VV  FF          CC
SS        CC        SS        VV      VV  FF          CC
SS        CC        SS        VV      VV  FF          CC
SS        CC        SS        VV      VV  FF          CC
SSSSSSSS  CCCCCCCC  SSSSSSSS  VV      VV  FEEEEEEEE  CCCCCCCC
SSSSSSSS  CCCCCCCC  SSSSSSSS  VV      VV  FEEEEEEEE  CCCCCCCC

```

```

LL        IIIIIII  SSSSSSSS
LL        IIIIIII  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 IIIIIII  SSSSSSSS
LLLLLLLLLL IIIIIII  SSSSSSSS

```

(1) 142 DECLARATIONS

```
0000 1 .IF NDF,PRMSW
0000 2 .TITLE SCSVEC - System Communications Service Vectors
0000 3 .IFF
0000 4 .TITLE SCSLOA - System Communications Service Loadcode
0000 5 .ENDC
0000 6 .IDENT 'V04-000'
0000 7 :
0000 8 :*****
0000 9 :
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0000 27 :
0000 28 :
0000 29 :*****
0000 30 :
0000 31 :
0000 32 :++
0000 33 : FACILITY:
0000 34 : Executive data base
0000 35 :
0000 36 : ABSTRACT:
0000 37 : This module contains the global entry point vectors for System
0000 38 : Communications Services (SCS). The targets of these vectors are
0000 39 : updated to point to the actual SCS image after it is loaded into
0000 40 : non-paged pool.
0000 41 :
0000 42 : ENVIRONMENT:
0000 43 :
0000 44 : AUTHOR: KERBEY T. ALTMANN, CREATION DATE: 22-APR-1981
0000 45 :
0000 46 : MODIFIED BY:
0000 47 :
0000 48 : V03-033 DWT0237 David W. Thiel 10-Aug-1984
0000 49 : Correct reference to RDISL_MAXRDIDX to match change
0000 50 : made in V03-032 below.
0000 51 :
0000 52 : V03-032 NPK3058 N. Kronenberg 25-Jul-1984
0000 53 : Fix maxime RDTE index to be index rather than number
0000 54 : of RDTEs configured.
0000 55 :
0000 56 : V03-031 NPK3056 N. Kronenberg 23-Jul-1984
0000 57 : Add capacity in Connection Descriptor List for addition
```



0000 115 : that message buffer wait queue is scanned first. This is done  
0000 116 : because the way PADRIVER enters CDRPs into to the send credit  
0000 117 : and message buffer wait queues makes the message buffer wait  
0000 118 : queue is likely to contain older (longer waiting) CDRPs. The  
0000 119 : connection manager needs this additional level of age ordering  
0000 120 : to help provide sequential delivery of messages.  
0000 121 :  
0000 122 : V03-018 MSH0005 Maryann Hinden 19-Apr-1983  
0000 123 : Use only one CDRP per connection.  
0000 124 :  
0000 125 : V03-017 JWH0217 Jeffrey W. Horn 14-Apr-1983  
0000 126 : Change second SLV table to be generated with SLVTAB macro.  
0000 127 :  
0000 128 : V03-016 MSH0004 Maryann Hinden 08-Apr-1983  
0000 129 : Changes to support HSC. Various bug fixes.  
0000 130 :  
0000 131 : V03-015 JWH0211 Jeffrey W. Horn 13-Apr-1983  
0000 132 : Use SLVTAB macro to produce loadable-code prologue.  
0000 133 :  
0000 134 : V03-014 MSH0003 Maryann Hinden 01-Apr-1983  
0000 135 : Move location of MY\_PROC.  
0000 136 :  
0000 137 : V03-013 MSH0002 Maryann Hinden 24-Mar-1983  
0000 138 :  
0000 139 : --  
0000 140 :

```

0000 142      .SBTTL  DECLARATIONS
0000 143      :
0000 144      : INCLUDE FILES
0000 145      :
0000 146      .nocross
0000 147      .IF      DF,PRMSW      ; For linkage with SCS
0000 148      $CCBDEF
0000 149      $CDLDEF
0000 150      $CDRPDEF
0000 151      $CDTDEF
0000 152      $CRBDEF
0000 153      $DDBDEF
0000 154      $DDTDEF
0000 155      $DYNDEF
0000 156      $IPLDEF
0000 157      $PBDEF
0000 158      $PBDEF
0000 159      $PDTDEF
0000 160      $PRCPOLDEF
0000 161      $RDDEF
0000 162      $RDTDEF
0000 163      .IFTF      ; Always need the following definition
0000 164      $SBDEF
0000 165      .IFT
0000 166      $SBDEF
0000 167      $SDIRDEF
0000 168      $SPNBDEF
0000 169      $SPPBDEF
0000 170      $SSDEF
0000 171      $TQEDEF
0000 172      $UCBDEF
0000 173      .ENDC
0000 174      .cross
0000 175
0000 176      :
0000 177      : Local macros
0000 178      :
0000 179      .MACRO  LIST_HEAD,ENTRY
0000 180      .ALIGN  LONG
0000 181  ENTRY:: .LONG  ENTRY
0000 182      .LONG  ENTRY
0000 183      .ENDM
0000 184
0000 185      .MACRO  POINTER,ENTRY
0000 186      .ALIGN  LONG
0000 187  ENTRY:: .LONG  0
0000 188      .ENDM
0000 189
0000 190      :
0000 191      : Misc labels
0000 192      :
0000 193      .IF      NDF,PRMSW      ; For linkage with SYS.EXE
0000 194      .PSECT  $$$500,LONG
0000 195
0000 196      :
0000 197      : Quadword linked list heads
0000 198      :

```

```

0000 199
0000 200 SCSSGQ_CONFIG::
00000000' 0000 201 .LONG SCSSGA_LOCALSB
00000000' 0004 202 .LONG SCSSGA_LOCALSB
0008 203 LIST_HEAD SCSSGQ_DIRECT
0010 204 LIST_HEAD SCSSGQ_POLL ; List of SPPB's giving process names
0018 205
0018 206 ;
0018 207 ; Longword pointers
0018 208 ;
0018 209
0018 210 POINTER SCSSGL_BDT
001C 211 POINTER SCSSGL_CDL
0020 212 POINTER SCSSGL_RDT
0024 213 POINTER SCSSGL_MLEN
0028 214 POINTER SCSSGL_MCADR
002C 215 POINTER SCSSGL_MSCP ; Start of MSCP server process
0030 216 POINTER SCSSGL_PDT ; Singly link list of PDT's
0034 217
0034 218 ;
0034 219 ; Process poller static data
0034 220 ;
0034 221
0034 222 SCSSGA_DFLTMSK:: ; Mask of processes to enable
00000036 0034 223 .BLKB SBSS_ENBMSK ; in new systems that appear
0036 224 SCSSGW_NEXTBIT:: ; Next bit available for assignment
0000 0036 225 .WORD 0
0038 226
00000000 0038 227 SCSSGA_EXISTS:: .LONG 0 ; Flag to indicate presence of SCS
003C 228
003C 229 DO_RSB:
50 D4 003C 230 CLRL R0 ; Failure status
05 003E 231 RSB ; Ignore call to unloaded routine
003F 232
003F 233 .ALIGN LONG
0040 234 ;
0040 235 ; Vector list
0040 236 ;
0040 237
0040 238 SCSSAL_LOAVEC::
0040 239 .IFF
0040 240 .PSECT $$$000, LONG
0040 241 SCS_START:
0040 242 SLVTAB END = SCS_END, -
0040 243 INITRTN = INIT_BEGIN, -
0040 244 SUBTYP = DYNSEC LC SCS, -
0040 245 FACILITY= <SCS_Loadable>
0040 246
0040 247 .ENDC
0040 248
0040 249 LOADVEC SCSSACCEPT
0046 250 LOADVEC SCSSALLOC_CDT
004C 251 LOADVEC SCSSALLOC_RSPID
0052 252 LOADVEC SCSSCONFIG_PTH
0058 253 LOADVEC SCSSCONFIG_SYS
005E 254 LOADVEC SCSSCONNECT
0064 255 LOADVEC SCSSDEALL_CDT

```



```
006A 256 LOADVEC SCSSDEALL_RSPID
0070 257 LOADVEC SCSSDISCONNECT
0076 258 LOADVEC SCSSENTER
007C 259 LOADVEC SCSSLISTEN
0082 260 LOADVEC SCSSLOCLOOKUP
0088 261 LOADVEC SCSSREMOVE
008E 262 LOADVEC SCSSRESUMEWAITR
0094 263 LOADVEC SCSSUNSTALLUCB
009A 264 LOADVEC SCSSLKP_RDTCDRP
00A0 265 LOADVEC SCSSLKP_RDTWAIT
00A6 266 LOADVEC SCSSRECYL_RSPID
00AC 267 LOADVEC SCSSFIND_RDTE
00B2 268 LOADVEC SCSSLKP_MSGWAIT
00B8 269 LOADVEC SCSSDIR_LOOKUP
00BE 270 LOADVEC SCSSNEW_SB,,DO_RSB
00C4 271 LOADVEC SCSSPOLC_PROCC,,DO_RSB
00CA 272 LOADVEC SCSSPOLL_MODE
00D0 273 LOADVEC SCSSPOLL_MBX,,DO_RSB
00D6 274 LOADVEC SCSSCANCEL_MBX
00DC 275 LOADVEC SCSSSHUTDOWN,,DO_RSB
00E2 276
00E2 277 :
00E2 278 : End of list
00E2 279 :
00E2 280 .IF NDF,PRMSW
```

: Search for processes on remote node  
: Called when an SB is created/reused  
: Declare a process name to the poller  
: Enable/Disable polling for a process  
: Declare a mailbox to receive poller notifi  
: Cancel notifications to a mailbox  
: Shut down all SCS virtual circuits

```

DO RSB          0000003C R    02
EXESLOAD ERROR ***** X  02
SBSS ENBMSK    = 00000002
SCSSACCEPT     00000040 RG   02
SCSSALLOC_CDT  00000046 RG   02
SCSSALLOC_RSPID 0000004C RG   02
SCSSAL_LOAVEC  00000040 RG   02
SCSSCANCEL_MBX 000000D6 RG   02
SCSSCONFIG_PTH 00000052 RG   02
SCSSCONFIG_SYS 00000058 RG   02
SCSSCONNECT     0000005E RG   02
SCSSDEALL_CDT   00000064 RG   02
SCSSDEALL_RSPID 0000006A RG   02
SCSSDIR_LOOKUP  000000B8 RG   02
SCSSDISCONNECT 00000070 RG   02
SCSSENTER       00000076 RG   02
SCSSFIND_RDTE   000000AC RG   02
SCSSGA_DFLTMSK 00000034 RG   02
SCSSGA_EXISTS   00000038 RG   02
SCSSGA_LOCALSB ***** X  02
SCSSGL_BDT      00000018 RG   02
SCSSGL_CDL      0000001C RG   02
SCSSGL_MCADR    00000028 RG   02
SCSSGL_MLEN     00000024 RG   02
SCSSGL_MSCP     0000002C RG   02
SCSSGL_PDT      00000030 RG   02
SCSSGL_RDT      00000020 RG   02
SCSSGQ_CONFIG   00000000 RG   02
SCSSGQ_DIRECT   00000008 RG   02
SCSSGQ_POLL     00000010 RG   02
SCSSGW_NEXTBIT  00000036 RG   02
SCSSLISTEN      0000007C RG   02
SCSSLKP_MSGWAIT 000000B2 RG   02
SCSSLKP_RDTCDRP 0000009A RG   02
SCSSLKP_RDTWAIT 000000A0 RG   02
SCSSLOC_LOOKUP  000000B2 RG   02
SCSSNEW_SB      000000BE RG   02
SCSSPOLC_MBX    000000D0 RG   02
SCSSPOLL_MODE   000000CA RG   02
SCSSPOLL_PROC   000000C4 RG   02
SCSSRECYC_RSPID 000000A6 RG   02
SCSSREMOVE      00000088 RG   02
SCSSRESUMEWAITR 0000008E RG   02
SCSSSHUTDOWN    000000DC RG   02
SCSSUNSTALLUCB 00000094 RG   02
    
```

-----+  
! Psect synopsis !  
-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$\$\$500	000000E2 ( 226.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

-----  
: Performance indicators :  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	32	00:00:00.06	00:00:00.96
Command processing	110	00:00:00.49	00:00:05.06
Pass 1	181	00:00:05.23	00:00:16.03
Symbol table sort	0	00:00:00.04	00:00:00.46
Pass 2	63	00:00:03.03	00:00:07.75
Symbol table output	5	00:00:00.05	00:00:00.14
Psect synopsis output	2	00:00:00.02	00:00:00.13
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	395	00:00:08.92	00:00:30.74

The working set limit was 1200 pages.  
23875 bytes (47 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 76 non-local and 0 local symbols.  
2914 source lines were read in Pass 1, producing 16 object records in Pass 2.  
12 pages of virtual memory were used to define 10 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	5

149 GETS were required to define 5 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SCSVEC/OBJ=OBJ\$:SCSVEC MSRC\$:SCSVEC/UPDATE=(ENH\$:SCSVEC)+EXECMLS/LIB

0380

AH-BT13A-SE  
VAX/VMS V4.0

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