

[illegible]

```
TTTTTTTTT1  RRRRRRRR  AAAAAA  NN  NN  SSSSSSSS  FFFFFFFF  EEEEEEEEE  RRRRRRRR
TTTTTTTTT  RRRRRRRR  AAAAAA  NN  NN  SSSSSSSS  FFFFFFFF  EEEEEEEEE  RRRRRRRR
TT          RR      AA      AA  NN  NN  SS      FF      EE      RR      RR
TT          RR      AA      AA  NN  NN  SS      FF      EE      RR      RR
TT          RR      AA      AA  NNNN  NN  SS      FF      EE      RR      RR
TT          RR      AA      AA  NNNN  NN  SS      FF      EE      RR      RR
TT          RRRRRRRR  AA      AA  NN  NN  SSSSSS  FFFFFFFF  EEEEEEEEE  RRRRRRRR
TT          RRRRRRRR  AA      AA  NN  NN  SSSSSS  FFFFFFFF  EEEEEEEEE  RRRRRRRR
TT          RR  RR    AAAAAAAAAA  NN  NNNN  SS      FF      EE      RR  RR
TT          RR  RR    AAAAAAAAAA  NN  NNNN  SS      FF      EE      RR  RR
TT          RR      RR  AA      AA  NN  NN  SS      FF      EE      RR      RR
TT          RR      RR  AA      AA  NN  NN  SSSSSSSS  FF      EEEEEEEEE  RR      RR
TT          RR      RR  AA      AA  NN  NN  SSSSSSSS  FF      EEEEEEEEE  RR      RR

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS
```



```
0000 1 .TITLE TRANSFER Transfer vectors for Symiont Services Roucines
0000 2 .IDENT 'V04-000'
0000 3 :
0000 4 :*****
0000 5 :*
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0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 ++
0000 28 FACILITY:
0000 29
0000 30 Symbiont Services Facility
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 This module provides universal transfer vectors for the
0000 35 shareable symbiont services.
0000 36
0000 37 ENVIRONMENT:
0000 38
0000 39 Native mode, user mode
0000 40
0000 41 AUTHOR:
0000 42
0000 43 Greg Robert 27-Apr-1983
0000 44
0000 45 MODIFIED BY:
0000 46
0000 47 V03-010 GRR0010 Gregory R. Robert 16-May-1984
0000 48 Move hangup flag from task_flags to stream_flags
0000 49
0000 50 V03-009 GRR0009 Gregory R. Robert 29-Sep-1983
0000 51 Changed library module name from smbdef to prtsmbdef.
0000 52
0000 53 V03-008 GRR0007 Gregory R. Robert 27-Sep-1983
0000 54 Alter PSECT attributes so that transfer image section
0000 55 is at front of image.
0000 56
0000 57 V3B-007 GRR3007 Gregory R. Robert 23-Aug-1983
```


TRANSFER
V04-000

```
0000 58 : Bugfixes, page_setup_modules, form_setup_modules,
0000 59 : sheet_feed, symbiont_initiated_pause_task and stop_stream,
0000 60 : hangup code, read and write item services
0000 61 :
0000 62 : V3B-006 GRR3006 Gregory R. Robert 03-Aug-1983
0000 63 : Changed HANGUP_AST to PSM$HANGUP_AST
0000 64 :
0000 65 : V3B-005 GRR3005 Gregory R. Robert 29-Jul-1983
0000 66 : Added FT1 transfer entries.
0000 67 :
0000 68 : V3B-004 GRR3004 Gregory R. Robert 27-Jun-1983
0000 69 : Added HANGUP routine transfer table
0000 70 :
0000 71 : V3B-003 GRR3003 Gregory R. Robert 27-May-1983
0000 72 : Removed obsolete transfers, added SEND_RESPONSE.
0000 73 :
0000 74 : V3B-002 GRR3002 Gregory R. Robert 27-May-1983
0000 75 : Added new transfer, renamed old ones.
0000 76 :
0000 77 : --
0000 78 :
0000 79 :
0000 80 : DECLARATIONS
0000 81 :
0000 82 : $PRTSMBDEF
0000 83 :
```



```
00000000 85      .PSECT  $SMBSHR_TRANFER, NOWRT, NOEXE, SHR, NOPIC, NOVEC
0000      86
0000      87  ;
0000      88  ; Define macro to set up transfer vectors
0000      89  ;
0000      90
0000      91      .MACRO  transfer entry_point
0000      92      .TRANSFER      entry_point
0000      93      .MASK          entry_point          ;Entry point mask
0000      94      JMP            entry_point+2        ;Go to main routine code
0000      95      .ENDM    transfer
0000      96
0000      97  ;
0000      98  ; NOTE: These transfer vectors cannot change. Add new vectors at the
0000      99  ; end -- replace obsolete vectors with dummy entries.
0000     100  ;
0000     101
0000     102  SMBSHR_TRANSFER:
0000     103      transfer  SMB$CHECK_FOR_MESSAGE ; Check for a job controller message
0008     104      transfer  PSMS$REPORT ; Complete asynchronous service
0010     105      transfer  PSMS$FILE_FLAG ; File flag/burst page
0018     106      transfer  PSMS$FILE_TRAILER ; File trailer page
0020     107      transfer  SMB$READ_MESSAGE_ITEM ; Get next item from message
0028     108      transfer  PSMS$INCLUDE_MODULES ; Include library modules
0030     109      transfer  SMB$INITIALIZE ; Initialize symbiont
0038     110      transfer  PSMS$JOB_FLAG ; Job flag/burst page
0040     111      transfer  PSMS$JOB_TRAILER ; Job trailer page
0048     112      transfer  PSMS$PAGE_HEADER ; Page header routine
0050     113      transfer  PSMS$PAGE_SETUP ; Page setup routine
0058     114      transfer  PSMS$PRINT ; Standard print symbiont
0060     115      transfer  PSMS$REPLACE ; Provide a user service routine
0068     116      transfer  PSMS$READ_ITEM_DX ; Read an SCB item by descriptor
0070     117      transfer  PSMS$READ_ITEM_R ; Read an SCB item by reference
0078     118      transfer  SMB$READ_MESSAGE ; Read a job controller message
0080     119      transfer  SMB$SEND_TO_JOBCTL ; Send a job controller message
0088     120      transfer  PSMS$WRITE_ITEM_DX ; Write an SCB item by descriptor
0090     121      transfer  PSMS$WRITE_ITEM_R ; Write an SCB item by reference
0098     122
```



```
00000000 124 .PSECT CODE LONG,NOWRT
0000 125
0000 126 :
0000 127 : Hangup dispatch table
0000 128 :
0000 129
0000 130 PSM$HANGUP_DISPATCH_TABLE::
00000000 0000 131 index = 0
0000 132 .repeat PSM$K_MAXSTREAMS ;One entry for each stream
0000 133
0000 134 .WORD 0 ;Save nothing
0000 135 MOVZBL #index,R0 ;Set stream index
0000 136 BRW DISPATCH ;Dispatch
0000 137
0000 138 index = index + 1 ;Advance macro index
0000 139 .endr
0100 140
0100 141 :
0100 142 : Globally declare dispatch entry size
0100 143 :
00000008 0100 144 PSM$$HANGUP_DISPATCH_ENTRY == -
0100 145 < - PSM$HANGUP_DISPATCH_TABLE> / PSM$K_MAXSTREAMS
0100 146
0100 147
0100 148 :
0100 149 : Mark the stream as hungup
0100 150 :
0100 151
0100 152 DISPATCH:
50 00000000'EF40 D0 0100 153 MOVL PSM$GL_SCBVEC[R0],R0 ; SCB address
00 0C A0 02 E2 0108 154 BBSS #PSM$V_HANGUP, - ; Set the HANGUP flag
04 010D 155 PSM$L_STREAM_FLAGS(R0),10$
010E 156 10$: RET
010E 157
010E 158 .END
```


TRANSFER
Symbol table

F 2

Transfer vectors for Symiont Services Ro 16-SEP-1984 02:08:53 VAX/VMS Macro V04-00 Page 5
5-SEP-1984 02:42:09 [PRTSMB.SRC]TRANSFER.MAR;1 (3)

DISPATCH	00000100	R	03
INDEX	= 00000020		
PSMSFILE_FLAG	*****	X	02
PSMSFILE_TRAILER	*****	X	02
PSMSG_L_SCBVEC	*****	X	03
PSMSHANGUP_DISPATCH_TABLE	00000000	RG	03
PSMSINCLUDE_MODULES	*****	X	02
PSMSJOB_FLAG	*****	X	02
PSMSJOB_TRAILER	*****	X	02
PSMSK_MAXSTREAMS	= 00000020		
PSMSL_STREAM_FLAGS	= 0000000C		
PSMSPAGE_HEADER	*****	X	02
PSMSPAGE_SETUP	*****	X	02
PSMSPRINT	*****	X	02
PSMSREAD_ITEM_DX	*****	X	02
PSMSREAD_ITEM_R	*****	X	02
PSMSREPLACE	*****	X	02
PSMSREPORT	*****	X	02
PSMSS_HANGUP_DISPATCH_ENTRY	= 00000008	G	
PSMSV_HANGUP	= 00000002		
PSMSWRITE_ITEM_DX	*****	X	02
PSMSWRITE_ITEM_R	*****	X	02
SMB\$CHECK_FOR_MESSAGE	*****	X	02
SMB\$INITIALIZE	*****	X	02
SMB\$READ_MESSAGE	*****	X	02
SMB\$READ_MESSAGE_ITEM	*****	X	02
SMB\$SEND_TO_JOBCTL	*****	X	02
SMB\$SHR_TRANSFER	00000000	R	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				
\$SMB\$SHR_TRANSFER	00000098 (152.)	02 (2.)	NOPIC	USR	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	NOVEC	BYTE				
CODE	0000010E (270.)	03 (3.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	LONG				

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.06	00:00:01.27
Command processing	85	00:00:00.60	00:00:06.01
Pass 1	165	00:00:03.91	00:00:12.16
Symbol table sort	0	00:00:00.50	00:00:00.89
Pass 2	50	00:00:00.83	00:00:05.48
Symbol table output	4	00:00:00.04	00:00:00.15
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	314	00:00:05.96	00:00:25.99

The working set limit was 900 pages.

22141 bytes (44 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 350 non-local and 1 local symbols.
158 source lines were read in Pass 1, producing 17 object records in Pass 2.
9 pages of virtual memory were used to define 8 macros.

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

Macro library name	Macros defined
-----	-----
\$255\$DUA28:[PRTSMB.OBJ]SMBDEF.MLB;1	1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	4

384 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:TRANSFER/OBJ=OBJ\$:TRANSFER MSRC\$:TRANSFER/UPDATE=(ENH\$:TRANSFER)+LIB\$:SMBDEF/LIB

0312 AH-BT13A-SE
VAX/VMS V4.0

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