

A large, stylized letter 'A' is formed using the characters 'S' and 'Y'. The left and right vertical strokes are composed of 'S' characters, while the central vertical stroke and the diagonal strokes are composed of 'Y' characters. The 'A' is symmetrical and has a bold, blocky appearance.

SY
VO[illegible]

(1) 51
(1) 70

DECLARATIONS
EXESEXIT - IMAGE EXIT SYSTEM SERVICE

```
0000 1 .TITLE SYSEXIT IMAGE EXIT SYSTEM SERVICE
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28 ++
0000 29 FACILITY: EXECUTIVE, SYSTEM SERVICES
0000 30
0000 31 ABSTRACT:
0000 32 SYSEXIT IMPLEMENTS THE EXIT SYSTEM SERVICE AND PERFORMS THE DISPATCHING
0000 33 OF EXIT HANDLERS AND DELETES THE PROCESS IF NONE EXIST.
0000 34
0000 35 ENVIRONMENT:
0000 36 MODE=KERNEL, PAGED CODE
0000 37
0000 38 AUTHOR: R. HUSTVEDT CREATION DATE: 30-SEP-76
0000 39
0000 40 MODIFIED BY:
0000 41
0000 42 V03-002 LJK0287 Lawrence J. Kenah 26-Jun-1984
0000 43 Do not call termination handlers forever. Only call a number
0000 44 equal to the number that have actually been declared.
0000 45
0000 46 V03-001 LJK0249 Lawrence J. Kenah 31-Aug-1983
0000 47 If $DELPRC somehow returns control to this routine, lower
0000 48 scheduling priority to zero before entering loop.
0000 49 --
```



```
0000 51      .SBTTL  DECLARATIONS
0000 52
0000 53
0000 54  : INCLUDE FILES:
0000 55  :
0000 56
0000 57      $PCBDEF      ; DEFINE PROCESS CONTROL BLOCK
0000 58      $PSLDEF      ; DEFINE PSL FIELDS AND BITS
0000 59
0000 60  :
0000 61  : EQUATES:
0000 62  :
00000004 0000 63 CODE=4      ; DISPLACEMENT TO EXIT CODE
0000 64  :
0000 65  : OWN STORAGE:
0000 66  :
0000 67
00000000 68      .PSECT  YEXEPAGED,BYTE      ; PAGED PSECT
```



```
0000 70 .SBTTL EXE$EXIT - IMAGE EXIT SYSTEM SERVICE
0000 71
0000 72 :++
0000 73 : FUNCTIONAL DESCRIPTION:
0000 74 : EXE$EXIT IMPLEMENTS THE IMAGE EXIT SYSTEM SERVICE. THE LIST
0000 75 : OF TERMINATION CONTROL BLOCKS FOR BOTH USER AND SUPER ACCESS
0000 76 : MODES ARE PROCESSED, CALLING THE SPECIFIED TERMINATION HANDLING
0000 77 : ROUTINES.
0000 78
0000 79 : CALLING SEQUENCE:
0000 80 : CALLG  ARGLIST,EXE$EXIT
0000 81
0000 82 : INPUT PARAMETERS:
0000 83 : CODE(AP) - TERMINATION REASON CODE
0000 84
0000 85 : R4 = CURRENT PROCESS PCB ADDRESS.
0000 86
0000 87
0000 88 : IMPLICIT INPUTS:
0000 89 : CTL$GL_THUSER - HEAD OF THE USER MODE TERMINATION CONTROL BLOCK LIST
0000 90 : CTL$GL_THSUPR - HEAD OF THE SUPER MODE TERMINATION CONTROL BLOCK LIST
0000 91
0000 92 : OUTPUT PARAMETERS:
0000 93 : NONE
0000 94
0000 95 : COMPLETION CODES:
0000 96 : NONE
0000 97
0000 98 : SIDE EFFECTS:
0000 99 : NONE
0000 100
0000 101 :--
0000 102
0000 103 .ENTRY EXE$EXIT,^M<R4>
0002 104 MOVL CODE(AP),@#CTL$GL_FINALSTS ; SET FINAL EXIT STATUS
000A 105 BBCC #PCB$V_FORCPEN,PCB$S_STS(R4),5$ ; CLEAR FORCE EXIT PENDING
000F 106 5$: MOVPSL R1 ; GET CURRENT PSL
0011 107 EXTZV #PSL$V_PRVMOD,#PSL$S_PRVMOD,R1,R1 ; EXTRACT PREVIOUS MODE
0016 108 PUSHAL @#CTL$GL_THCOUNT ; GET ADDRESS OF HANDLER COUNT CELL
001C 109 PUSHAL @#CTL$GL_THSUPR-4 ; GET ADDRESS OF TERMINATION CHAIN
0022 110 10$: SOBGEQ R1,30$ ; TRY SUPER MODE IF NONE FOR USER
0025 111 $DELPRC_S ; DELETE SELF
0030 112 $SETPRI_S PRI=#0 ; MAKE NEXT LOOP HARMLESS
003F 113 20$: BRB -20$ ; ***** FELL THROUGH DELPRC SOMEHOW
0041 114
0041 115 30$: MOVL @ (SP)[R1],R0 ; GET HEAD OF TERMINATION LIST
0046 116 BEQL 10$ ; NONE FOR THIS MODE, TRY ANOTHER
0048 117 CLRL @ (SP)+[R1] ; ZAP TERMINATION LIST POINTER
004B 118 MOVL @ (SP)[R1],R4 ; TUCK AWAY COUNT IN SAFE PLACE
0050 119 CLRL @ (SP)+[R1] ; CLEAR REAL COUNT CELL
0053 120 INCL R1 ; CORRECT MODE NUMBER
0055 121 MULL #<1+<1@<PSL$V_CURMOD-PSL$V_PRVMOD>>>,R1 ; MAKE PRV=CURRENT
0058 122 MOVL 12(FP),FP ; RESTORE CURRENT FRAME POINTER
005C 123 ADDL S^#<8+EXE$C_CMSTKSZ>,SP ; CLEAN KERNEL STACK
005F 124 ASHL #PSL$V_PRVMOD,R1,-(SP) ; PUSH PSL
0063 125 MOVL CODE(AP),R1 ; SET CODE IN R1
0067 126 BSBB DOREI ; PUSH PC AND DO REI
```

00000000'9F	04	AC	0010	0000	103
00 24 A4	02	E5	000A	104	
51 51 02 16	51	DC	000F	105	5\$:
00000000'9F	DF	0011	106		
FFFFFFFFC'9F	DF	0016	107		
1C 51 F4	001C	108			
		0022	109		10\$:
		0025	110		
		0030	111		
	FE 11	003F	112		20\$:
50 00 BE41	D0	0041	113		
	DA 13	0046	114		30\$:
	9E41	D4	0048		
54 00 BE41	D0	004B	115		
	9E41	D4	0050		
	51 D6	0053	116		
	51 05	C4	0055		
5D 0C AD	D0	0058	117		
	5E 08	C0	005C		
7E 51 16	78	005F	118		
51 04 AC	D0	0063	119		
	2C 10	0067	120		


```
0069 127
0069 128 :
0069 129 :
0069 130 :
0069 131 :
0069 132 :
0069 133 :
0069 134 :
0069 135 :
54 14 54 DD 0069 136 PUSHL R4 ; SAVE COUNT ON THE STACK
AD D0 006B 137 MOVL 5*4(FP),R4 ; RESTORE CONTENTS OF R4
51 DD 006F 138 40$: PUSHL R1 ; SAVE CODE
60 DD 0071 139 PUSHL (R0) ; SAVE POINTER TO NEXT BLOCK
60 D4 0073 140 CLRL (R0) ; ZAP FLINK TO PREVENT CIRCULAR LIST
0C B0 51 D0 0075 141 MOVL R1,@12(R0) ; SET TERMINATION CODE/REASON
04 B0 08 A0 FA 0079 142 CALLG 8(R0),@4(R0) ; CALL TERMINATION HANDLER
03 BA 007E 143 POPR #*M<R0,R1> ; RESTORE CODE AND POINTER
50 D5 0080 144 TSTL R0 ; MORE TERMINATION BLOCKS?
03 13 0082 145 BEQL 50$ ; NO, ALL DONE
E8 6E F5 0084 146 SOBGTR (SP),40$ ; KEEP GOING ONLY IF NONZERO LOOP COUNT
0087 147
5E 04 C0 0087 148 50$: ADDL #4,SP ; REMOVE COUNT CELL FROM STACK
5D D4 008A 149 CLRL FP ; TERMINATE CALL FRAME LIST
008C 150 $EXIT_S R1 ; OTHERWISE EXIT AGAIN
0095 151
0095 152 :
0095 153 :
0095 154 :
0095 155 :
02 0095 156 DOREI: REI ; ENTER PROPER MODE FOR TERMINATION
0096 157
0096 158
0096 159 .END
```

SYSEXIT
Symbol table

IMAGE EXIT SYSTEM SERVICE

D 7

16-SEP-1984 02:05:50 VAX/VMS Macro V04-00
5-SEP-1984 03:53:11 [SYS.SRC]SYSEXIT.MAR;1

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(1)

```
CODE = 00000004
CTL$GL_FINALSTS ***** X 02
CTL$GL_THCOUNT ***** X 02
CTL$GL_THSUPR ***** X 02
DOREI 00000095 R 02
EXESC_CMSTKSZ ***** X 02
EXE$EXIT 00000000 RG 02
PCBSL_STS = 00000024
PCBSV_FORCPEN = 00000002
PSL$S-PRVMOD = 00000002
PSL$V-CURMOD = 00000018
PSL$V-PRVMOD = 00000016
SYSD$ELPRC ***** GX 02
SYS$EXIT ***** GX 02
SYS$SETPRI ***** GX 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
YEXEPAGED	00000096 (150.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:00.88
Command processing	130	00:00:00.57	00:00:05.68
Pass 1	152	00:00:02.19	00:00:12.72
Symbol table sort	0	00:00:00.21	00:00:00.53
Pass 2	45	00:00:00.55	00:00:02.16
Symbol table output	3	00:00:00.03	00:00:00.09
Psect synopsis output	1	00:00:00.03	00:00:00.08
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	362	00:00:03.67	00:00:22.15

The working set limit was 1050 pages.
11193 bytes (22 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 181 non-local and 6 local symbols.
159 source lines were read in Pass 1, producing 16 object records in Pass 2.
13 pages of virtual memory were used to define 12 macros.

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

Macro library name

Macros defined

_ \$255\$DUA28:[SYS.OBJ]LIB.MLB;1
- \$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

1
8
9

260 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSEXIT/OBJ=OBJ\$:SYSEXIT MSRC\$:SYSEXIT/UPDATE=(ENH\$:SYSEXIT)+EXECML\$/LIB

0384 AH-BT13A-SE
VAX/VMS V4.0

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