

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 two diagonal strokes are composed of 'Y' characters. The 'A' is symmetrical and has a bold, blocky appearance.

50 3
45 5

49 5

[illegible]

(1)	54	SET RESOURCE WAIT MODE
(1)	85	SET SYSTEM SERVICE FAILURE EXCEPTION MODE
(1)	118	SET PROCESS SWAP MODE

```
0000 1      .TITLE  SYSSETMOD - SYSTEM SERVICES TO SET PROCESS MODES
0000 2      .IDENT  'V04-000'
0000 3
0000 4
0000 5      *****
0000 6      *
0000 7      *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8      *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9      *  ALL RIGHTS RESERVED.
0000 10     *
0000 11     *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12     *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13     *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14     *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15     *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16     *  TRANSFERRED.
0000 17     *
0000 18     *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19     *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20     *  CORPORATION.
0000 21     *
0000 22     *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24     *
0000 25     *
0000 26     *****
0000 27
0000 28     D. N. CUTLER 17-AUG-76
0000 29
0000 30     SYSTEM SERVICES TO SET PROCESS MODES
0000 31
0000 32     SET RESOURCE WAIT MODE
0000 33     SET SYSTEM SERVICE FAILURE EXCEPTION MODE
0000 34     SET PROCESS SWAP MODE
0000 35
0000 36     MACRO LIBRARY CALLS
0000 37
0000 38
0000 39     $PCBDEF                ;DEFINE PCB OFFSETS
0000 40     $PRVDEF                ;DEFINE PRIVILEGE BITS
0000 41     $PSLDEF                ;DEFINE PROCESSOR STATUS FIELDS
0000 42     $SSDEF                ;DEFINE SYSTEM STATUS VALUES
0000 43
0000 44
0000 45     LOCAL SYMBOLS
0000 46
0000 47     ARGUMENT LIST OFFSET DEFINITIONS
0000 48
0000 49
00000004 0000 50 ENBFLG=4                ;FAILURE MODE INDICATOR
00000004 0000 51 SWPFLG=4                ;SWAP MODE INDICATOR
00000004 0000 52 WATFLG=4                ;WAIT MODE INDICATOR
```



```
0000 54 .SBTTL SET RESOURCE WAIT MODE
0000 55 :+
0000 56 : EXE$SETRWM - SET RESOURCE WAIT MODE
0000 57 :
0000 58 : THIS SERVICE PROVIDES THE CAPABILITY TO CONTROL WHETHER IMPLICIT WAITS
0000 59 : ARE TO BE PERFORMED BY THE SYSTEM WHEN A REQUEST FOR A RESOURCE FAILS.
0000 60 :
0000 61 : INPUTS:
0000 62 :
0000 63 :     WATFLG(AP) = WAIT MODE INDICATOR.
0000 64 :     LOW BIT CLEAR TO ENABLE IMPLIED RESOURCE WAIT.
0000 65 :     LOW BIT SET TO DISABLE IMPLIED RESOURCE WAIT.
0000 66 :
0000 67 :     R4 = CURRENT PROCESS PCB ADDRESS.
0000 68 :
0000 69 : OUTPUTS:
0000 70 :
0000 71 :     R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0000 72 :
0000 73 :     R0 = SS$ WASCLR - NORMAL COMPLETION, RESOURCE WAIT WAS
0000 74 :     PREVIOUSLY ENABLED.
0000 75 :
0000 76 :     R0 = SS$ WASSET - NORMAL COMPLETION, RESOURCE WAIT WAS
0000 77 :     PREVIOUSLY DISABLED.
0000 78 : -
0000 79 :
00000000 80 .PSECT Y$EXEPAGED
0010 0000 81 .ENTRY EXE$SETRWM,"M<R4>
51 0A 9A 0002 82 MOVZBL #PCB$V_SSRWAIT,R1 ;SET RESOURCE WAIT BIT NUMBER
1C 11 0005 83 BRB SETMOD ;FINISH IN COMMON CODE
```

```
0007 85 .SBTTL SET SYSTEM SERVICE FAILURE EXCEPTION MODE
0007 86 :+
0007 87 : EXE$SETSFM - SET SYSTEM SERVICE FAILURE EXCEPTION MODE
0007 88 :
0007 89 : THIS SERVICE PROVIDES THE CAPABILITY TO CONTROL THE GENERATION OF SYSTEM
0007 90 : SERVICE FAILURE EXCEPTIONS WHEN A SERVICE RETURNS A STATUS VALUE WITH A
0007 91 : SEVERITY OF ERROR OR SEVERE ERROR.
0007 92 :
0007 93 : INPUTS:
0007 94 :
0007 95 : ENBFLG(AP) = FAILURE MODE INDICATOR.
0007 96 : LOW BIT CLEAR TO DISABLE FAILURE EXCEPTIONS.
0007 97 : LOW BIT SET TO ENABLE FAILURE EXCEPTIONS.
0007 98 :
0007 99 : R4 = CURRENT PROCESS PCB ADDRESS.
0007 100 :
0007 101 : OUTPUTS:
0007 102 :
0007 103 : R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0007 104 :
0007 105 : R0 = SSS WASCLR - NORMAL COMPLETION, FAILURE EXCEPTIONS
0007 106 : WERE PREVIOUSLY DISABLED.
0007 107 :
0007 108 : R0 = SSS WASSET - NORMAL COMPLETION, FAILURE EXCEPTIONS
0007 109 : WERE PREVIOUSLY ENABLED.
0007 110 :-
0007 111 :
0010 0007 112 .ENTRY EXE$SETSFM,^M<R4>
51 51 02 51 DC 0007 113 MOVPSL R1 ;READ CURRENT PSL
16 EF 0008 114 EXTZV #PSL$V_PRVMOD,#PSL$S_PRVMOD,R1,R1 ;EXTRACT PREVIOUS MODE
06 CO 0010 115 ADDL #PCB$V_SSFEXC,R1 ;ADD BASE FAILURE ENABLE BIT NUMBER
0E 11 0013 116 BRB SETMOD ;FINISH IN COMMON CODE
```



```
0015 118 .SBTTL SET PROCESS SWAP MODE
0015 119 :+
0015 120 : EXESSETSWM - SET PROCESS SWAP MODE
0015 121 :
0015 122 : THIS SERVICE PROVIDES THE CAPABILITY TO LOCK OR UNLOCK A PROCESS FROM
0015 123 : THE BALANCE SET. LOCKED IN THE BALANCE SET PREVENTS A PROCESS FROM BEING
0015 124 : SWAPPED OUT OF MEMORY.
0015 125 :
0015 126 : INPUTS:
0015 127 :
0015 128 : SWPFLG(AP) = PROCESS SWAP MODE INDICATOR.
0015 129 : LOW BIT CLEAR TO DISABLE PROCESS SWAPPING.
0015 130 : LOW BIT SET TO ENABLE PROCESS SWAPPING.
0015 131 :
0015 132 : R4 = CURRENT PROCESS PCB ADDRESS.
0015 133 :
0015 134 : OUTPUTS:
0015 135 :
0015 136 : R0 LOW BIT CLEAR INDICATES FAILURE TO SET PROCESS SWAP MODE.
0015 137 :
0015 138 : R0 = $$$ NOPRIV - PROCESS DOES NOT HAVE PRIVILEGE TO
0015 139 : CHANGE ITS SWAP MODE.
0015 140 :
0015 141 : R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0015 142 :
0015 143 : R0 = $$$ WASCLR - NORMAL COMPLETION, PROCESS WAS PREVIOUSLY
0015 144 : NOT LOCKED IN BALANCE SET.
0015 145 :
0015 146 : R0 = $$$ WASSET - NORMAL COMPLETION, PROCESS WAS PREVIOUSLY
0015 147 : LOCKED IN BALANCE SET.
0015 148 :-
0015 149 :
0015 150 :
0015 151 : .ENABL LSB
0015 152 : .ENTRY EXESSETSWM,^M<R4>
0017 153 : MOVZWL #$$$ NOPRIV,R0 ;ASSUME PROCESS CANNOT CHANGE SWAP MODE
001A 154 : IFNPRIV PSWAPM,20$ ;PROCESS HAVE PRIVILEGE TO CHANGE SWAP MODE?
0020 155 : MOVZBL #PCBSV PSWAPM,R1 ;SET PROCESS SWAP BIT NUMBER
0023 156 : SETMOD: MOVZWL #$$$ WASSET,R0 ;ASSUME PREVIOUSLY SET
0026 157 : BBS R1,PCBSL,STS(R4),10$ ;IF SET, MODE CURRENTLY SET
002B 158 : MOVZWL #$$$ WASCLR,R0 ;PREVIOUSLY CLEAR
002E 159 : 10$: INSV ENBFLG(AP),R1,#1,PCBSL,STS(R4) ;SET NEW MODE
0035 160 : 20$: RET ;
0036 161 : .DSABL LSB
0036 162 : .END
```

50 24 0010 3C
51 04 9A
03 24 A4 51 E0
50 01 3C
24 A4 01 51 04 AC F0
04

SYSSETMOD
Symbol table

- SYSTEM SERVICES TO SET PROCESS MODES

16-SEP-1984 02:32:27
5-SEP-1984 03:57:05

VAX/VMS Macro V04-00
[SYS.SRC]SYSSETMOD.MAR;1

Page 5
(1)

ENBFLG	= 00000004		
EXESSETRWM	00000000	RG	02
EXESSETFSM	00000007	RG	02
EXESSETSWM	00000015	RG	02
PCBSL_STS	= 00000024		
PCBSQ_PRIV	= 00000084		
PCBSV_PSWAPM	= 00000004		
PCBSV_SSFEXC	= 00000006		
PCBSV_SSRWAIT	= 0000000A		
PRVSV_PSWAPM	= 0000000C		
PSLSS_PRVMOD	= 00000002		
PSLSV_PRVMOD	= 00000016		
SETMOD	00000023	R	02
SSS_NOPRIV	= 00000024		
SSS_WASCLR	= 00000001		
SSS_WASSET	= 00000009		
SWPFLG	= 00000004		
WATFLG	= 00000004		

+-----+
! 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
Y\$EXEPAGED	00000036 (54.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:00.32
Command processing	131	00:00:00.56	00:00:01.32
Pass 1	237	00:00:05.79	00:00:12.86
Symbol table sort	0	00:00:01.04	00:00:02.06
Pass 2	47	00:00:01.05	00:00:02.59
Symbol table output	4	00:00:00.04	00:00:00.04
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	458	00:00:08.58	00:00:19.21

The working set limit was 1350 pages.
32498 bytes (64 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 661 non-local and 2 local symbols.
162 source lines were read in Pass 1, producing 21 object records in Pass 2.
12 pages of virtual memory were used to define 11 macros.

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

Macro library name	Macros defined
\$_255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
\$_255\$DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	8

739 GETS were required to define 8 macros.

There were no errors, warnings or information messages.

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

0388

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY