

A large, stylized letter 'A' is formed using the characters 'S' and 'Y'. The letter is symmetrical and composed of multiple rows of these characters. The top of the 'A' is formed by a row of 'S's, followed by rows of 'Y's and 'S's. The middle section consists of a row of 'Y's, followed by rows of 'S's and 'Y's. The bottom of the 'A' is formed by a row of 'S's, followed by rows of 'Y's and 'S's. The overall shape is a wide, triangular 'A' with a central vertical stem.

[illegible]

(2)	45	DECLARATIONS
(2)	61	CANCEL EXIT HANDLER
(2)	122	DECLARE EXIT HANDLER
(2)	164	GET EXIT CONTROL BLOCK PARAMETERS

```
0000 1      .TITLE SYSDCLEXH - SYSTEM SERVICES CANCEL AND DECLARE EXIT HANDLER
0000 2      .IDENT 'V04-000'
0000 3
0000 4 :
0000 5 :*****
0000 6 :
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 24 :
0000 25 :
0000 26 :*****
0000 27 :
0000 28 :++
0000 29 : FACILITY: EXECUTIVE, SYSTEM SERVICES
0000 30 :
0000 31 :      SYSTEM SERVICES CANCEL AND DECLARE EXIT HANDLER
0000 32 :
0000 33 : ENVIRONMENT:
0000 34 :      MODE=KERNEL, PAGED CODE
0000 35 :
0000 36 : AUTHOR:      D. N. CUTLER      CREATION DATE: 10-AUG-76
0000 37 :
0000 38 : MODIFIED BY:
0000 39 :
0000 40 :      V03-001 LJK0287      Lawrence J. Kenah      26-Jun-1984
0000 41 :      Count the number of exit handlers declared for each mode for
0000 42 :      use by $EXIT and $CANEXH.
0000 43 :--
```


SYSDCLEXH
V04-000

- SYSTEM SERVICES CANCEL AND DECLARE EXI 16-SEP-1984 01:57:19 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 03:50:27 [SYS.SRC]SYSDCLEXH.MAR;1

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```
0000 45 .SUBTITLE DECLARATIONS
0000 46 :
0000 47 : MACRO LIBRARY CALLS
0000 48 :
0000 49 :
0000 50 $PSLDEF ;DEFINE PROCESSOR STATUS FIELDS
0000 51 $SSDEF ;DEFINE SYSTEM STATUS VALUES
0000 52 :
0000 53 :
0000 54 : LOCAL SYMBOLS
0000 55 :
0000 56 : ARGUMENT LIST OFFSET DEFINITIONS
0000 57 :
0000 58 :
00000004 0000 59 DESBLK=4 ;EXIT CONTROL BLOCK ADDRESS
```

```
0000 61 .SBTTL CANCEL EXIT HANDLER
0000 62 :+
0000 63 : EX$SCANEXH - CANCEL EXIT HANDLER
0000 64 :
0000 65 : THIS SERVICE PROVIDES THE CAPABILITY TO DELETE AN EXIT CONTROL BLOCK OR
0000 66 : ALL EXIT CONTROL BLOCKS FROM THE EXIT HANDLER LIST FOR THE CALLING ACCESS
0000 67 : MODE.
0000 68 :
0000 69 : INPUTS:
0000 70 :
0000 71 : DESBLK(AP) = ADDRESS OF EXIT CONTROL BLOCK (ZERO IMPLIES ALL).
0000 72 :
0000 73 : R4 = CURRENT PROCESS PCB ADDRESS.
0000 74 :
0000 75 : OUTPUTS:
0000 76 :
0000 77 : R0 LOW BIT CLEAR INDICATES FAILURE TO CANCEL EXIT HANDLER.
0000 78 :
0000 79 : R0 = SS$ ACCVIO - FIRST LONGWORD OF EXIT CONTROL BLOCK
0000 80 : CANNOT BE READ BY THE CALLING ACCESS MODE, FIRST
0000 81 : LONGWORD OF A EXIT CONTROL BLOCK IN THE LIST CANNOT
0000 82 : BE READ BY THE CALLING ACCESS MODE, OR THE FIRST
0000 83 : LONGWORD OF THE PREVIOUS EXIT CONTROL BLOCK CANNOT
0000 84 : BE WRITTEN.
0000 85 :
0000 86 : R0 = SS$ NOHANDLER - SPECIFIED HANDLER CANNOT BE FOUND IN
0000 87 : EXIT HANLDER CONTROL BLOCK LIST.
0000 88 :
0000 89 : R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0000 90 :
0000 91 : R0 = SS$_NORMAL - NORMAL COMPLETION.
0000 92 :-
0000 93 :
0000 94 :
0000 95 : .ENABL LSB
0000 96 : .PSECT Y$EXEPAGED
0000 97 : .ENTRY EX$SCANEXH, ^M<R2,R3,R4,R5>
0000 98 : BSBB GETPARM :GET EXIT CONTROL BLOCK PARAMETERS
0000 99 : BEQL 25$ :IF EQL CANCEL ALL EXIT HANDLERS
52 50 D0 0006 100 :MOVL R0,R2 :COPY ADDRESS OF LISTHEAD
55 64 D0 0009 101 :MOVL (R4),R5 :GET COUNT FOR LOOP CONTROL
53 52 D0 000C 102 10$: :MOVL R2,R3 :SAVE ADDRESS OF PREVIOUS ENTRY
:IFNORD #4,(R3),50$ :CAN NEXT EXIT CONTROL BLOCK ADDRESS BE READ
52 63 D0 0015 103 :MOVL (R3),R2 :GET ADDRESS OF NEXT EXIT CONTROL BLOCK
52 46 13 0018 104 :BEQL 60$ :IF EQL END OF LIST
52 51 D1 001A 105 :CMPL R1,R2 :EXIT CONTROL BLOCK ADDRESS MATCH?
52 09 13 001D 106 :BEQL 15$ :IF EQUAL, ADDRESSES MATCH
EA 55 F4 001F 107 :SOBGEQ R5,10$ :GO BACK FOR NEXT BLOCK IN LIST
50 22B4 8F 3C 0022 108 :MOVZWL #SS$_INVEXHLIST,R0 :REPORT INCONSISTENT LIST
04 0027 109 :RET :RETURN FAILURE STATUS TO CALLER
0028 110 :
0028 111 15$: :IFNORD #4,(R2),50$ :CAN NEXT EXIT CONTROL BLOCK ADDRESS BE READ
53 50 D1 002E 112 :CMPL R0,R3 :PREVIOUS EXIT CONTROL BLOCK LISTHEAD?
06 13 0031 113 :BEQL 20$ :IF EQL YES
0033 114 :IFNOWRT #4,(R3),50$ :CAN PREVIOUS EXIT CONTROL BLOCK BE WRITTEN?
63 62 D0 0039 115 20$: :MOVL (R2),(R3) :REMOVE EXIT CONTROL BLOCK FROM LIST
64 D7 003C 116 :DECL (R4) :INDICATE THAT HANDLER WAS REMOVED
18 11 003E 117 :BRB 40$ :EXIT WITH SUCCESS
```


SYSDCLEXH
V04-000

- SYSTEM SERVICES CANCEL AND DECLARE ^{H 8} EXI 16-SEP-1984 01:57:19 VAX/VMS Macro V04-00
CANCEL EXIT HANDLER 5-SEP-1984 03:50:27 [SYS.SRC]SYSDCLEXH.MAR;1

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64	D4	0040	118				
11	11	0040	119	25\$:	CLRL	(R4)	
		0042	120		BRB	30\$	

;SET COUNT TO REFLECT EMPTY LIST
;EXIT BY CLEARING LISTHEAD

```
0044 122 .SBTTL DECLARE EXIT HANDLER
0044 123 :+
0044 124 : EXESDCLEXH - DECLARE EXIT HANDLER
0044 125 :
0044 126 : THIS SERVICE PROVIDES THE CAPABILITY TO INSERT AN EXIT CONTROL BLOCK AT
0044 127 : THE FRONT OF THE EXIT HANDLER LIST FOR THE CALLING ACCESS MODE.
0044 128 :
0044 129 : INPUTS:
0044 130 :
0044 131 :     DESBLK(AP) = ADDRESS OF EXIT CONTROL BLOCK.
0044 132 :
0044 133 :     R4 = CURRENT PROCESS PCB ADDRESS.
0044 134 :
0044 135 : OUTPUTS:
0044 136 :
0044 137 :     R0 LOW BIT CLEAR INDICATES FAILURE TO DECLARE EXIT HANDLER.
0044 138 :
0044 139 :     R0 = SSS_ACCVIO - FIRST LONGWORD OF EXIT CONTROL BLOCK
0044 140 :     CANNOT BE WRITTEN BY CALLING ACCESS MODE.
0044 141 :
0044 142 :     R0 = SSS_NOHANDLER - NO EXIT CONTROL BLOCK ADDRESS SPECIFIED.
0044 143 :
0044 144 :     R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0044 145 :
0044 146 :     R0 = SSS_NORMAL - NORMAL COMPLETION.
0044 147 : -
0044 148 :
0044 149 : .ENTRY EXESDCLEXH, ^M<R2,R3,R4>
0044 150 : BSBB GETPARM ;GET EXIT CONTROL BLOCK PARAMETERS
0044 151 : BEQL 60$ ;IF EQL NO EXIT CONTROL BLOCK SPECIFIED
0044 152 : IFNOWRT #4,(R1),50$ ;CAN FIRST LONGWORD BE WRITTEN?
0044 153 : MOVL (R0),(R1) ;LINK OLD FIRST TO NEW FIRST
0044 154 : INCL (R4) ;COUNT ANOTHER DECLARED HANDLER
0044 155 : MOVL R1,(R0) ;SET ADDRESS OF NEW FIRST ENTRY
0044 156 : MOVZWL #SS$_NORMAL,R0 ;SET NORMAL COMPLETION STATUS
0044 157 : RET ;
0044 158 : MOVZWL #SS$_ACCVIO,R0 ;SET ACCESS VIOLATION
0044 159 : RET ;
0044 160 : MOVZWL #SS$_NOHANDLER,R0 ;SET NO HANLDER STATUS
0044 161 : RET ;
0044 162 : .DSABL LSB ;

1E 10 001C 0044 149
16 13 0046 0046 150
61 60 D0 0048 151
64 D6 004A 004A 152
60 51 D0 0050 153
50 01 3C 0053 154
04 0055 155 30$:
04 0058 156 40$:
50 0C 3C 005B 157
04 005C 158 50$:
50 08F8 8F 3C 005F 159
04 0060 160 60$:
0065 161
0066 162
```



```
0066 164 .SBTTL GET EXIT CONTROL BLOCK PARAMETERS
0066 165 :+
0066 166 : This routine obtains the parameters that characterize this call to
0066 167 : SYSDCLEXH or SYSSCANEXH.
0066 168 :
0066 169 : Input Parameter:
0066 170 :
0066 171 : DESBLK(AP) - Address of termination handler control block
0066 172 :
0066 173 : Implicit Input:
0066 174 :
0066 175 : PSL<PRVMOD> - Access mode of caller of system service
0066 176 :
0066 177 : CTL$GL_THEXEC - Address of three-longword array of listheads of
0066 178 : termination handler control blocks, one each for exec,
0066 179 : supervisor, and user mode.
0066 180 :
0066 181 : CTL$GL_THCOUNT - Address of three-longword array of counts of
0066 182 : termination handlers for each of the three access modes.
0066 183 :
0066 184 : Output Parameters:
0066 185 :
0066 186 : R0 - Address of listhead for the correct access mode
0066 187 : R1 - Address of termination handler control block
0066 188 : R4 - Address of count cell for the correct access mode.
0066 189 :
0066 190 : Implicit Output:
0066 191 :
0066 192 : PSL<Z> - Indicates whether R1 contains a nonzero termination
0066 193 : handler control block address.
0066 194 : -
0066 195 :
0066 196 GETPARM:
50 50 02 50 DC 0066 197 MOVPSL R0 :READ CURRENT PSL
50 50 16 EF 0068 198 EXTZV #PSL$V_PRVMOD,#PSL$S_PRVMOD,R0,R0 :EXTRACT PREVIOUS MODE FIELD
50 50 15 D7 006D 199 DECL R0 :SUBTRACT OUT EXECUTIVE MODE BIAS
54 00000000'9F40 19 006F 200 BLSS 10$ :IF LSS CALL FROM KERNEL MODE
50 00000000'9F40 DE 0071 201 MOVAL @#CTL$GL_THCOUNT[R0],R4 :GET ADDRESS OF COUNT CELL
50 51 04 AC DE 0079 202 MOVAL @#CTL$GL_THEXEC[R0],R0 :GET ADDRESS OF EXIT HANDLER LISTHEAD
D0 0081 203 MOVL DESBLK(AP),R1 :GET ADDRESS OF EXIT CONTROL BLOCK
05 0085 204 RSB :
0086 205 :
0086 206 10$: BUG_CHECK IVSSRVQST :INVALID SYSTEM SERVICE REQUEST
008A 207 MOVZWL #SS$_IVSSRQ,R0 :SET INVALID SYSTEM SERVICE REQUEST
008F 208 RET :
0090 209 :
0090 210 .END
```

SYSDCLEXH
Symbol table

K 8
- SYSTEM SERVICES CANCEL AND DECLARE EXI 16-SEP-1984 01:57:19 VAX/VMS Macro V04-00
5-SEP-1984 03:50:27 [SYS.SRC]SYSDCLEXH.MAR;1

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BUG\$ IVSSRVQST	*****	X	02
CTL\$GL_THCOUNT	*****	X	02
CTL\$GL_THEXEC	*****	X	02
DESBK	= 00000004		
EX\$SCANEXH	00000000	RG	02
EX\$DCLEXH	00000044	RG	02
GETPARM	00000066	R	02
PSL\$S_PVMOD	= 00000002		
PSL\$V_PVMOD	= 00000016		
SS\$_ACCVIO	= 0000000C		
SS\$_INVEXHLIST	= 000022B4		
SS\$_IVSSRQ	= 00000174		
SS\$_NOHANDLER	= 000008F8		
SS\$_NORMAL	= 00000001		

+-----+
! 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	00000090 (144.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:01.27
Command processing	129	00:00:00.56	00:00:05.54
Pass 1	207	00:00:04.28	00:00:15.04
Symbol table sort	0	00:00:00.69	00:00:01.34
Pass 2	55	00:00:00.90	00:00:03.87
Symbol table output	3	00:00:00.03	00:00:00.03
Psect synopsis output	1	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	432	00:00:06.58	00:00:27.19

The working set limit was 1200 pages.
23713 bytes (47 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 453 non-local and 9 local symbols.
210 source lines were read in Pass 1, producing 19 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	3
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	5
TOTALS (all libraries)	8

SYSDCLEXH
VAX-11 Macro Run Statistics

- SYSTEM SERVICES CANCEL AND DECLARE EXI 16-SEP-1984 01:57:19 VAX/VMS Macro V04-00
5-SEP-1984 03:50:27 [SYS.SRC]SYSDCLEXH.MAR;1

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525 GETS were required to define 8 macros.

There were no errors, warnings or information messages.

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

0383 AH-BT13A-SE
VAX/VMS V4.0

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