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SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
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SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
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SSSSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSSSS
SSSSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSSSS

(1) 48

SET EXCEPTION VECTOR

```

0000 1 .TITLE SYSSETXV - SYSTEM SERVICE SET EXCEPTION VECTOR
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 : D. N. CUTLER 10-AUG-76
0000 29 :
0000 30 : SYSTEM SERVICE SET EXCEPTION VECTOR
0000 31 :
0000 32 : MACRO LIBRARY CALLS
0000 33 :
0000 34 :
0000 35 : $$$DEF ;DEFINE SYSTEM STATUS VALUES
0000 36 :
0000 37 :
0000 38 : LOCAL SYMBOLS
0000 39 :
0000 40 : ARGUMENT LIST OFFSET DEFINITIONS
0000 41 :
0000 42 :
00000004 0000 43 VECTOR=4 ;VECTOR INDICATOR
00000008 0000 44 HANDLR=8 ;EXCEPTION HANDLER ADDRESS
0000000C 0000 45 ACMODE=12 ;ACCESS MODE
00000010 0000 46 PRVHND=16 ;ADDRESS TO STORE PREVIOUS HANDLER ADDRESS

```

```

000C 48 .SBTTL SET EXCEPTION VECTOR
0000 49 :+
0000 50 : EXE$SETEXV - SET EXCEPTION VECTOR
0000 51 :
0000 52 : THIS SERVICE PROVIDES THE CAPABILITY TO ASSIGN A CONDITION HANDLER ADDRESS
0000 53 : TO A SOFTWARE EXCEPTION VECTOR OR TO DEASSIGN A PREVIOUSLY ASSIGNED
0000 54 : HANDLER ADDRESS.
0000 55 :
0000 56 : INPUTS:
0000 57 :
0000 58 : VECTOR(AP) = VECTOR INDICATOR.
0000 59 : BIT ONE SET INDICATES LAST CHANCE VECTOR.
0000 60 : BIT ONE CLEAR AND BIT ZERO CLEAR INDICATES PRIMARY VECTOR.
0000 61 : BIT ONE CLEAR AND BIT ZERO SET INDICATES SECONDARY VECTOR.
0000 62 : HANDLR(AP) = EXCEPTION HANDLER ADDRESS.
0000 63 : A ZERO ADDRESS SPECIFIES NO HANDLER IS TO BE ASSIGNED.
0000 64 : A NONZERO ADDRESS SPECIFIES AN EXCEPTION HANDLER.
0000 65 : ACMODE(AP) = ACCESS MODE EXCEPTION HANDLER IS TO BE ASSIGNED TO.
0000 66 : PRVHND(AP) = ADDRESS TO STORE PREVIOUS HANDLER ADDRESS.
0000 67 :
0000 68 : OUTPUTS:
0000 69 :
0000 70 : R0 LOW BIT CLEAR INDICATES FAILURE TO ASSIGN CONDITION HANDLER.
0000 71 :
0000 72 : R0 = SSS$ ACCVIO - LONGWORD WHICH IS TO RECEIVE PREVIOUS
0000 73 : CONDITION HANDLER ADDRESS CANNOT BE WRITTEN BY
0000 74 : CALLING ACCESS MODE.
0000 75 :
0000 76 : R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0000 77 :
0000 78 : R0 = SSS$ _NORMAL - NORMAL COMPLETION.
0000 79 : -
0000 80 :
00000000 81 .PSECT Y$EXEPAGED
0000 82 EXE$SETEXV: : SET EXCEPTION VECTOR
0000 83 .WORD ^M<R2,R3,R4,R5> : ENTRY MASK
50 0C AC 02 00 003C 0000 84 EXTZV #0,#2,ACMODE(AP),R0 : GET SPECIFIED ACCESS MODE
00000000'EF 16 0008 85 JSB EXE$MAXACMODE : MAXIMIZE ACCESS MODE WITH PREVIOUS MODE
55 00000000'EF40 7E 000E 86 MOVAQ CTL$AQ_EXCVEC[R0],R5 : GET ADDRESS OF ACCESS MODE VECTORS
02 04 AC E9 0016 87 BLBC VECTOR(AP),10$ : IF LBC PRIMARY VECTOR
85 D5 001A 88 TSTL (R5)+ : POINT TO SECONDARY VECTOR
55 08 04 AC 01 E1 001C 89 10$: BBC #1,VECTOR(AP),20$ : IF CLR, PRIMARY OR SECONDARY VECTOR
00000000'EF40 DE 0021 90 MOVAL CTL$AL_FINAL_EXC[R0],R5 : GET ADDRESS OF LAST CHANCE VECTORS
54 10 AC D0 0029 91 20$: MOVL PRVHND(AP),R4 : GET ADDRESS TO STORE PREVIOUS HANDLER
50 OC 13 002D 92 BEQL 30$ : IF EQL NONE SPECIFIED
64 65 D0 0032 93 MOVZWL #SS$ ACCVIO,R0 : ASSUME ACCESS VIOLATION
0038 94 IFNOWRT #4,(R4),40$ : CAN PREVIOUS HANDLER ADDRESS BE WRITTEN?
65 08 AC D0 0038 95 MOVL (R5),(R4) : STORE PREVIOUS EXCEPTION HANDLER ADDRESS
50 01 3C 003F 96 30$: MOVL HANDLR(AP),(R5) : SET NEW EXCEPTION HANDLER ADDRESS
0042 97 MOVZWL #SS$ _NORMAL,R0 : SET NORMAL COMPLETION STATUS
0043 98 40$: RET :
0043 99 :
0043 100 .END

```

SYSSETEXV
Symbol table

- SYSTEM SERVICE SET EXCEPTION VECTOR N 2

16-SEP-1984 02:30:32 VAX/VMS Macro V04-U0
5-SEP-1984 03:56:55 [SYS.SRC]SYSSETEXV.MAR;1

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SYS:
V04:

ACMODE	= 0000000C		
CTLSAL_FINAL_EXC	*****	X	02
CTLSAQ_EXCVEC	*****	X	02
EXESMAXACMODE	*****	X	02
EXESSETEXV	00000000	RS	02
HANDLF.	= 00000008		
PRVHND	= 00000010		
SSS_ACCVIO	= 0000000C		
SSS_NORMAL	= 00000001		
VECTOR	= 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			
YSEXEPAGED	00000043 (67.)	02 (2.)	NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE			

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.10	00:00:00.49
Command processing	133	00:00:00.59	00:00:01.90
Pass 1	198	00:00:03.77	00:00:09.01
Symbol table sort	0	00:00:00.61	00:00:01.54
Pass 2	39	00:00:00.64	00:00:01.44
Symbol table output	3	00:00:00.03	00:00:00.07
Psect synopsis output	1	00:00:00.04	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	411	00:00:05.78	00:00:14.49

The working set limit was 1200 pages.
 19817 bytes (39 pages) of virtual memory were used to buffer the intermediate code.
 There were 30 pages of symbol table space allocated to hold 415 non-local and 4 local symbols.
 100 source lines were read in Pass 1, producing 13 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:[SYS.OBJ]LIB.MLB;1	1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	5

473 GETS were required to define 5 macros.

There were no errors, warnings or information messages.

SYSSETEXV
VAX-11 Macro Run Statistics

- SYSTEM SERVICE SET EXCEPTION VECTOR ^{B 3}

16-SEP-1984 02:30:32 VAX/VMS Macro V04-00
5-SEP-1984 03:56:55 [SYS.SRC]SYSSETEXV.MAR;1

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SYS
V04-

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

A grid of 120 small screen capture images, arranged in 10 rows and 12 columns. Each image shows a terminal window displaying a system utility or library. The visible text in the images includes:

- SYSSETPRA LIS
- SYSSETSSF LIS
- SYSSNDJBC LIS
- SYSSETIME LIS
- SYSSETPPM LIS
- SYSSNDMSG LIS
- SYSSETPRT LIS
- SYSSETPRV LIS
- SYSUNWIND LIS
- SYSSETSTK LIS
- SYSSETMOD LIS
- SYSSETXU LIS
- SYSSETPRI LIS
- SYSSCHEUT LIS