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SSSSSSSS YY YY SSSSSSSS SSSSSSSS EEEEEEEEE TTTT TTTT EEEEEEEEE XX XX VV VW
SSSSSSSS YY YY SSSSSSSS SSSSSSSS EEEEEEEEE TTTT TTTT EEEEEEEEE XX XX VV VV
SS SS YY YY SS SS SS SS EE EE TT TT EE EE XX XX VV VV
SS SS YY YY SS SS SS SS EE EE TT TT EE EE XX XX VV VV
SSSSSSS YY YY SSSSSS SSSSSS EEEEEEEE EEEEEEEE TT TT EE EE XX XX VV VV
SSSSSSS YY YY SSSSSS SSSSSS EEEEEEEE EEEEEEEE TT TT EE EE XX XX VV VV
SS SS YY YY SS SS SS SS EE EE TT TT EE EE XX XX VV VV
SSSSSSSS YY YY SSSSSSSS SSSSSSSS EEEEEEEEE EEEEEEEEE TT TT EE EE XX XX VV VV
SSSSSSSS YY YY SSSSSSSS SSSSSSSS EEEEEEEEE EEEEEEEEE TT TT EE EE XX XX VV VV

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LL LL IIIIII SSSSSSSS
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(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 $SSDEF ;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

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000C 48 .SBTTL SET EXCEPTION VECTOR
0000 49 :+
0000 50 : EXE$SETXV - SET EXCEPTION VECTOR
0000 51 :
0000 52 : THIS SERVICE PROVIDES THE CAPABILITY TO ASSIGN A CONDITION HANDLER ADDRESS
0000 53 : TO A SOFTWARE EXCEPTION VECTOR OR TO DEASSIGN A PREVIOUSLY ASSIGNED
0000 54 : HANDLER ADDRESS.
0000 55 :
0000 56 : INPUTS:
0000 57 :
0000 58 : VECTOR(AP) = VECTOR INDICATOR.
0000 59 : BIT ONE SET INDICATES LAST CHANCE VECTOR.
0000 60 : BIT ONE CLEAR AND BIT ZERO CLEAR INDICATES PRIMARY VECTOR.
0000 61 : BIT ONE CLEAR AND BIT ZERO SET INDICATES SECONDARY VECTOR.
0000 62 : HANDLR(AP) = EXCEPTION HANDLER ADDRESS.
0000 63 : A ZERO ADDRESS SPECIFIES NO HANDLER IS TO BE ASSIGNED.
0000 64 : A NONZERO ADDRESS SPECIFIES AN EXCEPTION HANDLER.
0000 65 : ACMODE(AP) = ACCESS MODE EXCEPTION HANDLER IS TO BE ASSIGNED TO.
0000 66 : PRVHND(AP) = ADDRESS TO STORE PREVIOUS HANDLER ADDRESS.
0000 67 :
0000 68 : OUTPUTS:
0000 69 :
0000 70 : R0 LOW BIT CLEAR INDICATES FAILURE TO ASSIGN CONDITION HANDLER.
0000 71 :
0000 72 : R0 = SSS$ 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$EXEPAGED
0000 82 EXE$SETXV: :SET EXCEPTION VECTOR
0000 83 .WORD ^M<R2,R3,R4,R5> :ENTRY MASK
50 0C AC 02 00 003C 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 85 D5 001A 87 BLBC VECTOR(AP),10$ :IF LBC PRIMARY VECTOR
08 04 AC 01 E1 001C 88 TSTL (R5)+ :POINT TO SECONDARY VECTOR
55 00000000'EF40 DE 0021 89 10$: BBC #1,VECTOR(AP),20$ :IF CLR, PRIMARY OR SECONDARY VECTOR
54 10 AC D0 0029 90 MOVAL CTL$AL_FINALEXC[R0],R5 :GET ADDRESS OF LAST CHANCE VECTORS
50 OC 13 002D 91 20$: MOVL PRVHND(AP),R4 :GET ADDRESS TO STORE PREVIOUS HANDLER
3C 002F 92 BEQL 30$ :IF EQL NONE SPECIFIED
0032 93 MOVZWL #SS$ ACCVIO,R0 :ASSUME ACCESS VIOLATION
64 65 D0 0038 94 IFNOWRT #4,(R4),40$ :CAN PREVIOUS HANDLER ADDRESS BE WRITTEN?
65 08 AC D0 003B 95 MOVL (R5),(R4) :STORE PREVIOUS EXCEPTION HANDLER ADDRESS
50 01 3C 003F 96 30$: MOVL HANDLR(AP),(R5) :SET NEW EXCEPTION HANDLER ADDRESS
04 0042 97 MOVZWL #SS$ _NORMAL,R0 :SET NORMAL COMPLETION STATUS
0043 98 RET :
0043 99
0043 100 .END

```

SYSSETEXV
Symbol table

- SYSTEM SERVICE SET EXCEPTION VECTOR ^{N 2}

16-SEP-1984 02:30:32
5-SEP-1984 03:56:55

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

ACMODE	= 0000000C		
CTL\$AL_FINAL_EXC	*****	X	02
CTL\$AQ_EXCVEC	*****	X	02
EXESMAXACMODE	*****	X	02
EXESSETEXV	00000000	RG	02
HANDLF	= 00000008		
PRVHND	= 00000010		
SS\$ACCVIO	= 0000000C		
SS\$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
Y\$EXEPAGED	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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(1)

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

SYS:
V04-

