


```

EEEEEEEEEE XX XX CCCCCCCC EEEEEEEEEE PPPPPPPP TTTTTTTTTT MM MM SSSSSSSS GGGGGGGG
EEEEEEEEEE XX XX CCCCCCCC EEEEEEEEEE PPPPPPPP TTTTTTTTTT MM MM SSSSSSSS GGGGGGGG
EE XX XX CC CC EE PP PP TT MM MM SS GG
EE XX XX CC CC EE PP PP TT MM MM SS GG
EE XX XX CC CC EE PP PP TT MM MM SS GG
EEEEEEEEEE XX XX CC CC EEEEEEEEE PPPPPPPP TTTTTTTTTT MM MM SSSSSS GG
EEEEEEEEEE XX XX CC CC EEEEEEEEE PPPPPPPP TTTTTTTTTT MM MM SSSSSS GG
EE XX XX CC CC EE PP PP TT MM MM SS GG GGGGGG
EE XX XX CC CC EE PP PP TT MM MM SS GG GGGGGG
EE XX XX CC CC EE PP PP TT MM MM SS GG GG
EEEEEEEEEE XX XX CCCCCCCC EEEEEEEEEE PPPPPPPP TTTTTTTTTT MM MM SSSSSSSS GGGGGG
EEEEEEEEEE XX XX CCCCCCCC EEEEEEEEEE PPPPPPPP TTTTTTTTTT MM MM SSSSSSSS GGGGGG

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LL IIIIII SSSSSSSS
LL IIIIII SSSSSSSS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

(1)	41	DECLARATIONS
(1)	84	EXCEPTION MESSAGE FORMAT AND PRINT ROUTINE
(1)	179	UTILITY SUBROUTINES

```
0000 1 .TITLE EXCEPTMSG - EXCEPTION MESSAGE FORMAT AND PRINT ROUTINE
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 : D. N. CUTLER 9-NOV-77
0000 29 :
0000 30 : EXCEPTION MESSAGE FORMAT AND PRINT ROUTINE
0000 31 :
0000 32 : Modified by:
0000 33 :
0000 34 : V02-003 LMK0001 Len Kawell 3-Sep-1981
0000 35 : Change PSECT names to re-order system image.
0000 36 :
0000 37 : V02-002 LJK0033 Lawrence J. Kenah 2-Jun-1981
0000 38 : Add dump of top of stack to output display
0000 39 :
```

```

0000 41 .SUBTITLE DECLARATIONS
0000 42 :
0000 43 : MACRO LIBRARY CALLS
0000 44 :
0000 45 :
0000 46 $CHFDEF ;DEFINE CONDITION HANDLING ARGLST OFFSETS
0000 47 $FABDEF ;DEFINE FAB OFFSETS
0000 48 $RABDEF ;DEFINE RAB OFFSETS
0000 49 :
0000 50 :
0000 51 : LOCAL SYMBOLS
0000 52 :
0000 53 : ARGUMENT LIST OFFSET DEFINITIONS
0000 54 :
0000 55 :
00000004 0000 56 MESSAGE=4 ;ADDRESS OF ASCIZ STRING
00000008 0000 57 SIGNAL=8 ;ADDRESS OF SIGNAL ARGUMENT LIST
0000 58 :
0000 59 :
0000 60 : OUTPUT FORMAT BUFFER SIZE
0000 61 :
0000 62 :
00000050 0000 63 BUFSIZ=80 ;
0000 64 :
0000 65 :
0000 66 : LOCAL DATA
0000 67 :
0000 68 :
00000000 0000 69 .PSECT YEXEPAGED2,BYTE
79 6C 72 65 70 6F 72 70 6D 49 20 20 0000 70 HEADNG: .ASCIZ / Improperly handled condition, / ;
6E 6F 63 20 64 65 6C 64 6E 61 68 20 000C
00 20 2C 6E 6F 69 74 69 64 0018
75 64 20 72 65 74 73 69 67 65 52 09 0021 71 REGMSG: .ASCIZ / Register dump/ ;
00 70 6D 002D
20 31 52 20 20 00 20 3D 20 30 52 09 0030 72 REGDMP: .ASCII / R0 = /<0>/ R1 = /<0>/ R2 = /<0>/ R3 = /<0><128> ;
20 00 20 3D 20 32 52 20 20 00 20 3D 003C
80 00 20 3D 20 33 52 20 0048
20 35 52 20 20 00 20 3D 20 34 52 09 0050 73 .ASCII / R4 = /<0>/ R5 = /<0>/ R6 = /<0>/ R7 = /<0><128> ;
20 00 20 3D 20 36 52 20 20 00 20 3D 005C
80 00 20 3D 20 37 52 20 0068
20 39 52 20 20 00 20 3D 20 38 52 09 0070 74 .ASCII / R8 = /<0>/ R9 = /<0>/ R10= /<0>/ R11= /<0><128> ;
20 00 20 3D 30 31 52 20 20 00 20 3D 007C
80 00 20 3D 31 31 52 20 0088
20 50 46 20 20 00 20 3D 20 50 41 09 0090 75 .ASCII / AP = /<0>/ FP = /<0>/ SP = /<0>/ PC = /<0><128> ;
20 00 20 3D 20 50 53 20 20 00 20 3D 009C
80 00 20 3D 20 43 50 20 00A8
80 00 20 3D 4C 53 50 09 00B0 76 .ASCII / PSL= /<0><128> ;
00B8 77 SIGCTL: .ASCIZ / / ;
00BC 78 SIGCTL_BY 3: / ;
75 67 72 61 20 6C 61 6E 67 69 53 09 00C3 79 .ASCIZ / /
20 20 20 20 20 20 09 73 74 6E 65 6D 00CF 80 SIGMSG: .ASCIZ / Signal arguments / Stack contents/
6E 65 74 6E 6F 63 20 6B 63 61 74 53 00DB
00 73 74 00E7
00 20 3D 20 20 20 65 6D 61 4E 09 00EA 81 SIGNAM: .ASCIZ / Name = / ;SIGNAL NAME
00 20 3D 20 72 65 62 6D 75 4E 09 00F5 82 SIGNUM: .ASCIZ / Number = / ;SIGNAL ARGUMENTS NUMBER

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0100 84 .SBTTL EXCEPTION MESSAGE FORMAT AND PRINT ROUTINE
0100 85 :+
0100 86 : EXE$EXCMMSG - EXCEPTION MESSAGE FORMAT AND PRINT ROUTINE
0100 87 :
0100 88 : THIS ROUTINE IS CALLED WHEN NO EXCEPTION HANDLER CAN BE FOUND OR ALL HANDLERS
0100 89 : RESIGNAL. ITS FUNCTION IS TO PRINT A SUMMARY OF THE CURRENT PROCESS STATE AND
0100 90 : WHY THE PROCESS RECEIVED THE EXCEPTION.
0100 91 :
0100 92 : INPUTS:
0100 93 :
0100 94 : MESSAGE(AP) = ADDRESS OF MESSAGE SUFFIX STRING.
0100 95 : SIGNAL(AP) = ADDRESS OF SIGNAL ARGUMENT LIST.
0100 96 :
0100 97 : OUTPUTS:
0100 98 :
0100 99 : THE HEADING MESSAGE IS FORMATTED BY ADDING THE SPECIFIED SUFFIX AND
0100 100 : IS THEN WRITTEN TO 'SYS$ERROR'. THIS INFORMATION IS FOLLOWED BY A DUMP
0100 101 : OF THE SIGNAL ARGUMENTS AND GENERAL REGISTERS. WHILE THE OUTPUT IS
0100 102 : BEING WRITTEN TO 'SYS$ERROR' IT IS ALSO WRITTEN TO 'SYS$OUTPUT' IF
0100 103 : THEY ARE DIFFERENT FILES.
0100 104 :
0100 105 :-
0100 106 .ENTRY EXE$EXCMMSG, *M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
5E 80 AE 9E 0102 107 BSBW EXE$OPEN MSG :OPEN MESSAGE FILES AND INITIALIZE RAB'S
57 5E DO 0105 108 MOVAB -BUFSIZ(SP),SP :ALLOCATE SPACE FOR OUTPUT BUFFER
5E BC AE 9E 010C 109 MOVL SP,R7 :SAVE ADDRESS OF OUTPUT BUFFER
56 08 AC DO 0110 110 MOVAB -17*4(SP),SP :ALLOCATE REGISTER SAVE AREA
50 5E DO 0114 111 MOVL SIGNAL(AP),R6 :GET ADDRESS OF SIGNAL ARGUMENTS
51 08 A6 DO 0117 112 MOVL SP,R0 :SET ADDRESS OF REGISTER SAVE AREA
80 0C A1 7D 0118 113 MOVQ CHF$MCHARGLST(R6),R1 :GET ADDRESS OF MECHANISM ARRAY
51 14 AD 9E 011F 114 MOVQ CHF$MCH_SAVRO(R1),(R0)+ :INSERT ORIGINAL R0 AND R1
52 0A DO 0123 115 MOVAB 20(FP),R1 :GET ADDRESS OF SAVED REGISTERS
80 81 DO 0126 116 MOVL #10,R2 :SET REGISTER COUNT
FA 52 F5 0129 117 10$: MOVL (R1)+,(R0)+ :INSERT ORIGINAL REGISTERS
80 08 AD 7D 012C 118 SOBGTR R2,10$ :ANY MORE REGISTERS TO SAVE?
56 04 A6 DO 0130 119 MOVQ 8(FP),(R0)+ :INSERT ARGUMENT AND FRAME POINTERS
55 66 DO 0134 120 MOVL CHF$SIGARGLST(R6),R6 :GET ADDRESS OF SIGNAL ARRAY
58 04 A645 DE 0137 121 MOVL (R6),R5 :GET NUMBER OF SIGNAL ARGUMENTS
80 80 58 DO 013C 122 MOVAL 4(R6)[R5],R8 :INSERT STACK POINTER ADDRESS
60 FC A645 DO 013F 123 MOVL R8,(R0)+ :USE R8 AS STACK LIST TRAVERSAL REGISTER
28 AA 67 9E 0144 124 MOVL -4(R6)[R5],(R0)+ :INSERT SAVED PROGRAM COUNTER
28 AB 67 9E 0148 125 MOVL (R6)[R5],(R0) :INSERT SAVED PROCESSOR STATUS
00A6 30 014C 126 MOVAB (R7),RAB$L_RBF(R10) :SET ADDRESS OF RECORD BUFFER
FEA9 CF 9E 0150 127 MOVAB (R7),RAB$L_RBF(R11) :SET ADDRESS OF RECORD BUFFER
0085 30 0153 128 BSBW PUT :OUTPUT RECORD
51 04 AC DO 0158 129 MOVAB HEADNG,R1 :GET ADDRESS OF INITIAL HEADING
0093 30 015B 130 BSBW INSERT :INSERT HEADING IN OUTPUT BUFFER
51 FF5D CF 9E 015F 131 MOVL MESSAGE(AP),R1 :GET ADDRESS OF MESSAGE SUFFIX
0088 30 0162 132 BSBW PUTI :INSERT SUFFIX IN OUTPUT BUFFER AND PRINT
55 66 01 0167 133 MOVAB SIGMSG,R1 :GET ADDRESS OF SIGNAL ARGUMENT MESSAGE
7E 55 08 C3 016A 134 BSBW PUTI :INSERT MESSAGE IN OUTPUT BUFFER AND PRINT
03 1B 0172 135 SUBL3 #1,(R6),R5 :CALCULATE NUMBER OF SIGNAL ARGUMENTS - 1
55 08 DO 0174 136 SUBL3 #8,R5,-(SP) :STORE DIFFERENCE ON STACK
FF7A CF 9E 0177 137 BLEQU 15$ :BRANCH IF SIGNAL ARRAY SMALLER
00AE 30 017C 138 MOVL #8,R5 :STACK DISPLAY IS SMALLER
51 00AE 30 0177 139 15$: MOVAB SIGNUM,R1 :GET ADDRESS OF ARGUMENT NUMBER PREFIX
00AE 30 017C 140 BSBW PUTC_BOTH :WRITE TWO COLUMN ENTRIES

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51	FF67	CF	9E	017F	141	MOVAB	SIGNAM,R1		:GET ADDRESS OF SIGNAL NAME PREFIX
	00A6		30	0184	142	BSBW	PUTC_BOTH		:WRITE TWO COLUMN ENTRIES
51	FF2D	CF	9E	0187	143	20\$:	MOVAB	SIGCTL,R1	:GET ADDRESS OF INDENT MESSAGE
	009E		30	018C	144	BSBW	PUTC_BOTH		:WRITE TWO COLUMN ENTRIES
	F5	55	F5	018F	145	SOBGTR	R5,20\$:ANY MORE TO CONVERT?
			55	8ED0	0192	POPL	R5		:RETRIEVE DIFFERENCE
			1E	13	0195	BEQL	REG_DUMP		:NO DIFFERENCE. GO DUMP REGISTERS
			10	14	0197	BGTR	25\$:SIGNAL ARRAY LARGER. DUMP BALANCE.
51	FF1F	CF	9E	0199	149	22\$:	MOVAB	SIGCTL_BY_3,R1	:DUMP BALANCE OF STACK (UP TO 10 LONGWORDS)
	40		10	019E	150	BSBB	INSERT		:INSERTED EXTENDED INDENT INTO OUTPUT RECORD
	0096		30	01A0	151	BSBW	PUTC_R8		:OUTPUT THIS STACK LONGWORD
	F2	55	00	F2	01A3	AOBLSS	#0,R5,22\$:GO GET NEXT ONE
			0C	11	01A7	BRB	REG_DUMP		:ALL DONE. DUMP REGISTERS
					01A9				
51	FF0B	CF	9E	01A9	155	25\$:	MOVAB	SIGCTL,R1	:DUMP BALANCE OF SIGNAL ARRAY
	30		10	01AE	156	BSBB	INSERT		:INSERTED INDENT INTO OUTPUT RECORD
	77		10	01B0	157	BSBB	PUTC_R6		:OUTPUT THIS SIGNAL ARRAY ELEMENT
	F4	55	F5	01B2	158	SOBGTR	R5,25\$:GO GET NEXT ONE
					01B5				
					01B5	160	REG_DUMP:		
	42		10	01B5	161	BSBB	PUT		:OUTPUT BLANK LINE
51	FE66	CF	9E	01B7	162	MOVAB	REGMSG,R1		:GET ADDRESS OF REGISTER DUMP MESSAGE
	37		10	01BC	163	BSBB	PUTI		:INSERT MESSAGE IN OUTPUT BUFFER AND PRINT
	54	05	D0	01BE	164	MOVL	#5,R4		:SET NUMBER OF LINES TO PRINT
55	FE6B	CF	9E	01C1	165	MOVAB	REGDMP,R5		:SET ADDRESS OF REGISTER DUMP CONTROL STRING
	56	5E	D0	01C6	166	POVL	SP,R6		:SET ADDRESS OF REGISTER SAVE AREA
	50	85	98	01C9	167	30\$:	C/TBL	(R5)+,R0	:GET NEXT BYTE FROM CONTROL STRING
			04	15	01CC	BLEQ	40\$:IF LEQ CONTROL BYTE
			19	10	01CE	BSBB	PUTB		:PUT BYTE IN OUTPUT BUFFER
			F7	11	01D0	BRB	30\$		
			04	19	01D2	40\$:	BLSS	50\$:IF LSS END OF LINE
			67	10	01D4	BSBB	CONVERT_R6		:CONVERT NEXT REGISTER VALUE
			F1	11	01D6	BRB	30\$		
			1F	10	01D8	50\$:	BSBB	PUT	:OUTPUT RECORD
	EC	54	F5	01DA	175	SOBGTR	R4,30\$:ANY MORE LINES TO PRINT?
			1A	10	01DD	BSBB	PUT		:OUTPUT RECORD
			04	01DF	177	RET			:

```

01E0 179      .SUBTITLE      UTILITY SUBROUTINES
01E0 180      :
01E0 181      : INSERT TEXT IN OUTPUT BUFFER
01E0 182      :
01E0 183      :
01E0 184      :
50  81  9A 01E0 185  INSERT: .ENABL  LSB      :GET NEXT BYTE FROM TEXT STRING
      OF 13 01E3 186      BEQL    10$      :IF EQL END OF TEXT STRING
      02 10 01E5 187      BSBB    PUTB     :PUT BYTE IN OUTPUT BUFFER
      F7 11 01E7 188      BRB     INSERT   :
01E9 189      :
01E9 190      :
01E9 191      : PUT BYTE IN OUTPUT BUFFER
01E9 192      :
01E9 193      :
22  AA  B5 01E9 194  PUTB:   TSTW    RAB$W_RSZ(R10)  :ANY ROOM LEFT IN BUFFER?
      06 13 01EC 195      BEQL    10$      :IF EQL NO
22  AA  B7 01EE 196      DECW    RAB$W_RSZ(R10)  :DECREMENT NUMBER OF BYTES REMAINING
87  50  90 01F1 197      MOVB    RO,(R7)+      :INSERT BYTE IN OUTPUT BUFFER
      05 01F4 198  10$:    RSB      :
01F5 199      .DSABL  LSB
01F5 200      :
01F5 201      :
01F5 202      : INSERT TEXT IN OUTPUT BUFFER AND OUTPUT RECORD AND BLANK RECORD
01F5 203      :
01F5 204      :
      E9 10 01F5 205  PUTI:   BSBB    INSERT     :INSERT TEXT IN BUFFER
      00 10 01F7 206      BSBB    PUT      :OUTPUT RECORD
01F9 207      :
01F9 208      :
01F9 209      : OUTPUT CURRENT RECORD AND RESET RECORD PARAMETERS
01F9 210      :
01F9 211      :
50  57  28  AA  C3 01F9 212  PUT:   SUBL3   RAB$L_RBF(R10),R7,RO  :CALCULATE LENGTH OF OUTPUT RECORD
      22  AA  50  B0 01FE 213      MOVW    RO,RAB$W_RSZ(R10)  :SET LENGTH OF OUTPUT RECORD
      22  AB  50  B0 0202 214      MOVW    RO,RAB$W_RSZ(R11)  :SET LENGTH OF OUTPUT RECORD
      0206 215      $PUT    RAB=(R10)  :OUTPUT RECORD
      57  28  AA  D0 020F 216      MOVL    RAB$L_RBF(R10),R7  :RESET OUTPUT RECORD POINTER
22  AA  50  8F  9B 0213 217      MOVZBW  #BUFSTZ,RAB$W_RSZ(R10)  :RESET OUTPUT RECORD BUFFER SIZE
02  AB  02  AA  B1 0218 218      CMPW    RAB$W_ISI(R10),RAB$W_ISI(R11) :ERROR AND OUTPUT FILES EQUIVALENT?
      09 13 021D 219      BEQL    10$      :IF EQL YES
      05 021F 220      $PUT    RAB=(R11)  :OUTPUT RECORD
0228 221  10$:    RSB      :
0229 222      :
0229 223      :
0229 224      : CONVERT HEXDECIMAL VALUE AND OUTPUT RECORD
0229 225      :
0229 226      :
      12 10 0229 227  PUTC_R6:
      CL 11 022B 228      BSBB    CONVERT_R6  :CONVERT HEXADECIMAL VALUE
      022D 229      BRB     PUT      :OUTPUT RECORD
022D 230      :
      B1 10 022D 231  PUTC_BOTH:
      000B 30 022F 232      BSBB    INSERT     :INSERT INDENT PREFIX IN OUTPUT BUFFER
51  FE82 CF 9E 0232 233      BSBW    CONVERT_R6  :CONVERT NUMBER AND PUT INTO RECORD
      A7 10 0237 234      MOVAB   SIGCTL,R1  :ADD HORIZONTAL SPACER
      0237 235      BSBB    INSERT     :ADD SPACER TO OUTPUT RECORD

```



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07 10 0239 236 PUTC_R8:
BC 11 0239 237 BSBB CONVERT_R8 ;CONVERT HEXDECIMAL VALUE
023B 238 BRB PUT ;OUTPUT RECORD
023D 239
023D 240
023D 241 :: CONVERT NUMBER BASE 16
023D 242 ::
023D 243
023D 244 .ENABLE LOCAL_BLOCK
023D 245
023D 246 CONVERT_R6: ;LIST TRAVERSED BY R6
51 86 D0 023D 247 MOVL (R6)+,R1 ;GET NUMBER TO BE CONVERTED
03 11 0240 248 BRB 5$ ;JOIN COMMON CODE
0242 249
0242 250 CONVERT_R8: ;LIST TRAVERSED BY R8
51 88 D0 0242 251 MOVL (R8)+,R1 ;GET NUMBER TO BE CONVERTED
52 1C D0 0245 252 5$: MOVL #28,R2 ;SET STARTING BIT NUMBER
50 51 04 52 EF 0248 253 10$: EXTZV R2,#4,R1,R0 ;GET NEXT HEXDECIMAL DIGIT
50 00000000'EF40 9A 024D 254 MOVZBL EX$AB_HEXTAB[R0],R0 ;CONVERT HEXDIGIT TO ASCII
92 10 0255 255 BSBB PUTB ;PUT BYTE IN OUTPUT BUFFER
FFEA 52 FC 8F 00 9D 0257 256 ACBB #0,#-4,R2,10$ ;ANY MORE DIGITS TO CONVERT?
05 025E 257 RSB ;
025F 258
025F 259 .DISABLE LOCAL_BLOCK
025F 260
025F 261 .END

```

\$\$TMP1	=	00000001		
\$\$TMP2	=	00000068		
BUFSIZ	=	00000050		
CHFSL_MCHARGLST	=	00000008		
CHFSL_MCH_SAVRO	=	0000000C		
CHFSL_SIGARGLST	=	00000004		
CONVERT_R6		0000023D	R	02
CONVERT_R8		00000242	R	02
EXESAB_REXTAB		*****	X	02
EXESEXMSG		00000100	RG	02
EXESOPEN_MSG		*****	X	02
HEADNG		000000C0	R	02
INSERT		000001E0	R	02
MESSAGE	=	00000004		
PUT		000001F9	R	02
PUTB		000001E9	RR	02
PUTC_BOTH		0000022D	RR	02
PUTC_R6		00000229	RR	02
PUTC_R8		00000239	RR	02
PUTI		000001F5	R	02
RABSL_RBF	=	00000028		
RABSW_ISI	=	00000002		
RABSW_RSZ	=	00000022		
REGDMP		00000030	R	02
REGMSG		00000021	RR	02
REG_DUMP		00000185	RR	02
SIGCTL		000000B8	RR	02
SIGCTL_BY_3		000000BC	RR	02
SIGMSG		000000C3	R	02
SIGNAL	=	00000008		
SIGNAM		000000EA	R	02
SIGNUM		000000F5	R	02
SYSSPUT		*****	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	
YEXEPAGED2	0000025F (607.)	02 (2.)	NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE	

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.09	00:00:01.00
Command processing	105	00:00:00.49	00:00:04.34
Pass 1	181	00:00:03.75	00:00:11.25
Symbol table sort	0	00:00:00.32	00:00:00.84
Pass 2	71	00:00:00.96	00:00:07.92
Symbol table output	6	00:00:00.06	00:00:00.06
Psect synopsis output	1	00:00:00.02	00:00:00.02

EXCEPTMSG
VAX-11 Macro Run Statistics

- EXCEPTION MESSAGE FORMAT AND PRINT ROU L 10
16-SEP-1984 00:07:22 VAX/VMS Macro V04-00
5-SEP-1984 03:41:50 [SYS.SRC]EXCEPTMSG.MAR;1

Page 8
(1)

Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	396	00:00:05.70	00:00:25.47

The working set limit was 1050 pages.
21155 bytes (42 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 339 non-local and 12 local symbols.
261 source lines were read in Pass 1, producing 16 object records in Pass 2.
13 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	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	8
TOTALS (all libraries)	8

427 GETS were required to define 8 macros.

There were no errors, warnings or information messages.

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

FILEREAD LIS
EXCEPTMSG LIS
DISMOUNT LIS
DEBUGDATA LIS
ERRORLOG LIS
DEVICEDAT LIS
EXCEPTION LIS
EXSUBROUT LIS
FILERWIO LIS