

```

MMM          MMM          AAAAAAAAAA          IIIIIIIIIII          LLL
MMM          MMM          AAAAAAAAAA          IIIIIIIIIII          LLL
MMM          MMM          AAAAAAAAAA          IIIIIIIIIII          LLL
MMMMMMMM    MMMMMMM    AAA          AAA          III          LLL
MMMMMMMM    MMMMMMM    AAA          AAA          III          LLL
MMMMMMMM    MMMMMMM    AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAAAAAAAAAAAAAAAAA          III          LLL
MMM          MMM          AAAAAAAAAAAAAAAAAA          III          LLL
MMM          MMM          AAAAAAAAAAAAAAAAAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          III          LLL
MMM          MMM          AAA          AAA          IIIIIIIIIII          LLLLLLLLLLLLLLLLLL
MMM          MMM          AAA          AAA          IIIIIIIIIII          LLLLLLLLLLLLLLLLLL
MMM          MMM          AAA          AAA          IIIIIIIIIII          LLLLLLLLLLLLLLLLLL

```

```
HH      HH      AAAAAA      NN      NN      DDDDDDDD      LL      EEEEEEEEEEE      RRRRRRRR
HH      HH      AAAAAA      NN      NN      DDDDDDDD      LL      EEEEEEEEEEE      RRRRRRRR
HH      HH      AA      AA      NN      NN      DD      DD      LL      EE      RR      RR
HH      HH      AA      AA      NN      NN      DD      DD      LL      EE      RR      RR
HH      HH      AA      AA      NNNN      NN      DD      DD      LL      EE      RR      RR
HH      HH      AA      AA      NNNN      NN      DD      DD      LL      EE      RR      RR
HHHHHHHHHH      AA      AA      NN      NN      DD      DD      LL      EEEEEEEEE      RRRRRRRR
HHHHHHHHHH      AA      AA      NN      NN      DD      DD      LL      EEEEEEEEE      RRRRRRRR
HH      HH      AAAAAAAAAA      NN      NNNN      DD      DD      LL      EE      RR      RR
HH      HH      AAAAAAAAAA      NN      NNNN      DD      DD      LL      EE      RR      RR
HH      HH      AA      AA      NN      NN      DD      DD      LL      EE      RR      RR
HH      HH      AA      AA      NN      NN      DD      DD      LL      EE      RR      RR
HH      HH      AA      AA      NN      NN      DDDDDDDD      LLLLLLLLLL      EEEEEEEEEEE      RR      RR
HH      HH      AA      AA      NN      NN      DDDDDDDD      LLLLLLLLLL      EEEEEEEEEEE      RR      RR
```

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


(2) 53
(3) 76

DECLARATIONS
CONDITION HANDLER

```
0000 1 .TITLE MAIL$HANDLER - CONDITION HANDLER
0000 2 .IDENT 'V04-000'
0000 3 :
0000 4 :*****
0000 5 :*
0000 6 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 22 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :
0000 28 :++
0000 29 : FACILITY: VAX/VMS MAIL UTILITY
0000 30 :
0000 31 : ABSTRACT: CONDITION HANDLER
0000 32 :
0000 33 :
0000 34 : ENVIRONMENT: NATIVE/USER MODE
0000 35 :
0000 36 : AUTHOR: LEN KAWELL, CREATION DATE: 2-FEB-79
0000 37 :
0000 38 : MODIFICATION HISTORY:
0000 39 :
0000 40 : V03-003 BLS0288 Benn Schreiber 21-MAR-1984
0000 41 : Drop privs before putmsg if they are raised.
0000 42 :
0000 43 : V03-002 BLS0255 Benn Schreiber 28-Dec-1983
0000 44 : Check inhib_msg before signalling, set it on the way out.
0000 45 : If signal is accvio, resignal to get full argument dump.
0000 46 :
0000 47 : V03-001 BLS0177 Benn Schreiber 24-Jun-1982
0000 48 : Remove global invocation of $SHRMSG. Remove invocation of
0000 49 : $MAILMSGDEF
0000 50 :
0000 51 :--
```



```
0000 53      .SBTTL  DECLARATIONS
0000 54      :
0000 55      : INCLUDE FILES:
0000 56      :
0000 57      :
0000 58      :
0000 59      : EQUATED SYMBOLS:
0000 60      :
0000 61      :     MAIFDEF
0000 62      :     $CHFDEF
0000 63      :     $STSDEF
0000 64      :
0000 65      :
0000 66      : LOCAL MACROS:
0000 67      :
0000 68      :
0000 69      :
0000 70      : OWN STORAGE:
0000 71      :
0000 72      :
0000 73      :
0000 74      :
0000 73      .PSECT  $CODE$,NOWRT,EXE
0000 74
```

;MAIL CONTROL FLAGS
;CONDITION HANDLER DEFINITIONS
;STATUS CODE DEFINITIONS

```
0000 76 .SBTTL CONDITION HANDLER
0000 77 :++
0000 78 : FUNCTIONAL DESCRIPTION:
0000 79 :
0000 80 : OUTPUTS ERROR MESSAGE USING SYSS$PUTMSG
0000 81 :
0000 82 : CALLING SEQUENCE:
0000 83 : CALLED BY AN EXCEPTION OR LIB$SIGNAL
0000 84 :
0000 85 : INPUT PARAMETERS:
0000 86 : STANDARD CONDITION HANDLER ARGUMENTS
0000 87 :
0000 88 : IMPLICIT INPUTS:
0000 89 : NONE
0000 90 :
0000 91 : OUTPUT PARAMETERS:
0000 92 : NONE
0000 93 :
0000 94 : IMPLICIT OUTPUTS:
0000 95 : NONE
0000 96 :
0000 97 : COMPLETION CODES:
0000 98 : NONE
0000 99 :
0000 100 : SIDE EFFECTS:
0000 101 : ERROR MESSAGE OUTPUT
0000 102 :
0000 103 :--
003C 0000 104 .ENTRY MAIL$HANDLE,- :CONDITION HANDLER
0002 105 ^M<R2,R3,R4,R5> : (ENTRY MASK)
55 01 01 EF 0002 106 EXTZV #MAIF V_NETJOB,#1,- :GET NETJOB FLAG
00000000'EF 0005 107 MAIL$GL_FLAGS,R5
52 04 AC DO 0008 108 MOVL CHF$S_SIGARGLST(AP),R2 :GET ADDR OF CONDITION ARRAY
000F 109 :
000F 110 : IF NETWORK JOB, SEND SIGNALLED STATUS VALUE TO OUR MASTER
000F 111 :
1B 55 E9 000F 112 BLBC R5,40$ :BR IF NOT NETWORK JOB
04 A2 DF 0012 113 PUSHAL CHF$S_SIG_NAME(R2) :CREATE STATUS VALUE DESC
04 DD 0015 114 PUSHL #4 :
6E DF 0017 115 PUSHAL (SP) :SEND THE STATUS VALUE
00000000'EF 01 FB 0019 116 CALLS #1,MAIL$PUT_OUTPUT :TO MASTER MAIL JOB
03 50 E8 0020 117 BLBS R0,10$ :BR IF SUCCESS
009B 31 0023 118 BRW EXIT :ELSE - EXIT WITH FAILURE STATUS
0026 119 10$:
10 04 A2 E9 0026 120 BLBC CHF$S_SIG_NAME(R2),PUT_MESSAGE :IF ERROR, OUTPUT ERROR MESSAGE
0062 31 002A 121 BRW CONTINUE :ELSE - JUST CONTINUE
00000000'8F 04 A2 D1 002D 122 40$: CMPL CHF$S_SIG_NAME(R2),#SS$_ACCVIO :INTERACTIVE ACCVIO?
03 12 0035 123 BNEQ PUT_MESSAGE :IF NEQ NO, GO SIGNAL
0081 31 0037 124 BRW RESIGNAL :YES, GET FULL DUMP
003A 125 :
003A 126 : OUTPUT THE ERROR MESSAGE
003A 127 :
003A 128 PUT_MESSAGE:
50 04 A2 1C E0 003A 129 BBS #ST$V_INHIB_MSG,CHF$S_SIG_NAME(R2),CONTINUE
62 02 A2 003F 130 SUBW #2,CHF$S_SIG_ARGS(R2) :DON'T PASS PC & PSL
53 00000000'EF 7D 0042 131 MOVQ MAIL$Q_ENHANCED_PRIVS,R3 :SEE IF PRIVS RAISED
07 13 0049 132 BEQL 10$ :BRANCH IF NOT
```



```
00000000'EF 00 FB 004B 133 CALLS #0,MAIL$DOWN_PRIV ;YES, DROP THEM
                                0052 134 10$: $PUTMSG_S MSGVEC=(R2),- ;OUTPUT THE MESSAGE(S)
                                0052 135 ACTRTN=ACTION_ROUTINE ;
50 54 50 DD 0065 136 PUSHL R0 ;SAVE STATUS
                                53 C9 0067 137 BISL3 R3,R4,R0 ;SEE IF PRIVS WERE RAISED
                                0A 13 006B 138 BEQL 20$ ;IF EQL NO
                                7E 53 7D 006D 139 MOVQ R3,-(SP) ;YES--RESTORE THEM
00000000'EF 02 FB 0070 140 CALLS #2,MAIL$UP_PRIV
44 50 8ED0 0077 141 20$: POPL R0 ;RESTORE PUTMSG STATUS
                                50 E9 007A 142 BLBC R0,EXIT ;BR IF FAILURE
                                007D 143
                                007D 144 ; IF NETWORK JOB, SEND END OF MESSAGES FLAG
                                007D 145
                                007D 146 END_OF_MESS: ;SEND END OF MESSAGES FLAG
OF 55 E9 007D 147 BLBC R5,CONTINUE ;BR IF NOT A NETWORK JOB
00 DD 0080 148 PUSHL #0 ;END OF MESSAGES FLAG
5E DD 0082 149 PUSHL SP ;CREATE FLAG DESC
01 DD 0084 150 PUSHL #1
6E 7F 0086 151 PUSHAQ (SP) ;SEND THE FLAG
00000000'EF 01 FB 0088 152 CALLS #1,MAIL$PUT_OUTPUT ;TO MASTER MAIL JOB
                                008F 153
                                008F 154 ; CONTINUE IF CONDITION WASN'T SEVERE ERROR
                                008F 155
                                008F 156 CONTINUE: ;CONTINUE IF POSSIBLE
00000000'8F 04 A2 D1 008F 157 CMLP CHF$L_SIG_NAME(R2),#SS$_ACCVIO ;WAS IT AN ACCVIO?
                                22 13 0097 158 BEQL RESIGNAL
52 04 AC D0 0099 159 MOVL CHF$L_SIGARGLST(AP),R2 ;GET ADDR OF CONDITION ARRAY AGAIN
51 08 AC D0 009D 160 MOVL CHF$L_MCHARGLST(AP),R1 ;GET ADDR OF MECHANISM ARRAY
10000000 8F C9 00A1 161 BISL3 #ST$M_INHIB MSG,- ;GET STATUS AND INHIBIT MESSAGE
50 04 A2 00A7 162 CHF$L_SIG_NAME(R2),R0
0C A1 50 D0 00AA 163 MOVL R0,CHF$L_MCH_SAVR0(R1) ;SET IN RETURN R0
00 ED 00AE 164 CMPZV #ST$V_SEVERITY,- ;WAS THIS A SEVERE ERROR?
04 50 03 00B0 165 #ST$S_SEVERITY,R0,#ST$K_SEVERE
50 0000'8F 3C 00B3 166 BEQLU EXIT ;IF SO - EXIT
                                04 00B5 167 MOVZWL #SS$_CONTINUE,R0 ;SET STATUS
                                00BA 168 RET
                                00BB 169
                                00BB 170 RESIGNAL:
50 0000'8F 3C 00BB 171 MOVZWL #SS$_RESIGNAL,R0
                                04 00C0 172 RET
                                00C1 173 ; EXIT WITH STATUS
                                00C1 174
                                00C1 175
                                00C1 176 EXIT: ;EXIT IMAGE
                                00C1 177 $EXIT_S R0
                                00CA 178
```

```
00CA 180 :++
00CA 181 : ACTION_ROUTINE - SYSS$PUTMSG ACTION ROUTINE
00CA 182 :
00CA 183 :     THIS ROUTINE IS CALLED TO PUT AN ERROR MESSAGE TO SYSS$OUTPUT.
00CA 184 :     USING THIS ROUTINE FORCES ALL OUTPUT THROUGH MAIL$PUT_OUTPUT.
00CA 185 :
00CA 186 :     INPUTS:
00CA 187 :
00CA 188 :     4(AP) = ADDRESS OF MESSAGE DESCRIPTOR
00CA 189 :
00CA 190 :     OUTPUTS:
00CA 191 :
00CA 192 :     MESSAGE OUTPUT TO OUTPUT FILE.
00CA 193 :
00CA 194 : --
00CA 195 ACTION_ROUTINE:
00CA 196 .WORD 0 ;SYSS$PUTMSG ACTION ROUTINE
00CC 197 CALLG (AP),MAIL$PUT_OUTPUT ;(ENTRY MASK)
00D3 198 BLBC RO,EXIT ;
00D6 199 BBC #MAIF V NETJOB,MAIL$GL_FLAGS,10$ ;BR IF FAILURE
00DE 200 CALLG (AP),G^CIB$PUT_OUTPUT - ;BR IF NOT NET JOB
00E5 201 10$: ;PUT MESSAGE IN LOG FILE TOO
00E5 202 CLRL RO ;DON'T OUTPUT ANYTHING
00E7 203 RET ;
00E8 204
00E8 205 .END
```

00000000'EF 6C FA 0000 00CA 196
07 00000000'EF EB 50 E9 00CC 197
00000000'GF 01 E1 00D3 198
00000000'GF 6C FA 00D6 199
50 D4 00DE 200
04 00E5 201
00E5 202
00E7 203
00E8 204
00E8 205

MAIL\$HANDLER
Symbol table

- CONDITION HANDLER

B 2

16-SEP-1984 00:46:29 VAX/VMS Macro V04-00
5-SEP-1984 01:50:41 [MAIL.SRC]HANDLER.MAR;1Page 6
(4)

ACTION ROUTINE	000000CA	R	02
CHFSL_MCHARGLST	= 00000008		
CHFSL_MCH_SAVRO	= 0000000C		
CHFSL_SIGARGLST	= 00000004		
CHFSL_SIG_ARGS	= 00000000		
CHFSL_SIG_NAME	= 00000004		
CONTINUE	0000008F	R	02
END_OF_MESS	0000007D	R	02
EXIT	000000C1	R	02
LIB\$PUT_OUTPUT	*****	X	02
MAIFDEF	= 00000000		
MAIF_L_FLAGS	= 00000000		
MAIF_M_ALTP	= 00000400		
MAIF_M_ATTACHMENT	= 00080000		
MAIF_M_BATCH	= 00000200		
MAIF_M_CALEDT	= 00008000		
MAIF_M_CAPTIVE	= 00004000		
MAIF_M_CTRL CFL	= 00000100		
MAIF_M_DFMSG	= 00001000		
MAIF_M_EDTEDT	= 00010000		
MAIF_M_EDTXYZ	= 00020000		
MAIF_M_FILOPN	= 00000800		
MAIF_M_ISAM	= 00000001		
MAIF_M_ITEM	= 00000004		
MAIF_M_NETJOB	= 00000002		
MAIF_M_OTERM	= 00000008		
MAIF_M_RDHOLD	= 00000020		
MAIF_M_READ_FL	= 00000040		
MAIF_M_RECL	= 00000080		
MAIF_M_SCOPE	= 00000010		
MAIF_M_SERVERLOOP	= 00040000		
MAIF_M_USEREDIT	= 00002000		
MAIF_S_MAIFDEF	= 00000004		
MAIF_V_ALTP	= 0000000A		
MAIF_V_ATTACHMENT	= 00000013		
MAIF_V_BATCH	= 00000009		
MAIF_V_CALEDT	= 0000000F		
MAIF_V_CAPTIVE	= 0000000E		
MAIF_V_CTRL CFL	= 00000008		
MAIF_V_DFMSG	= 0000000C		
MAIF_V_EDTEDT	= 00000010		
MAIF_V_EDTXYZ	= 00000011		
MAIF_V_FILOPN	= 0000000B		
MAIF_V_ISAM	= 00000000		
MAIF_V_ITEM	= 00000002		
MAIF_V_NETJOB	= 00000001		
MAIF_V_OTERM	= 00000003		
MAIF_V_RDHOLD	= 00000005		
MAIF_V_READ_FL	= 00000006		
MAIF_V_RECL	= 00000007		
MAIF_V_SCOPE	= 00000004		
MAIF_V_SERVERLOOP	= 00000012		
MAIF_V_USEREDIT	= 0000000D		
MAIL\$DOWN PRIV	*****	X	02
MAIL\$GL_FLAGS	*****	X	02
MAIL\$HANDLE	00000000	RG	02
MAIL\$PUT_OUTPUT	*****	X	02

MAIL\$Q_ENHANCED_PRIVS	*****	X	02
MAIL\$UP_PRIV	*****	X	02
PUT_MESSAGE	0000003A	R	02
RESIGNAL	000000BB	R	02
SS\$ACCVIO	*****	X	02
SS\$CONTINUE	*****	X	02
SS\$RESIGNAL	*****	X	02
ST\$K_SEVERE	= 00000004		
ST\$M_INHIB_MSG	= 10000000		
ST\$S_SEVERITY	= 00000003		
ST\$V_INHIB_MSG	= 0000001C		
ST\$V_SEVERITY	= 00000000		
SY\$EXIT	*****	GX	02
SY\$PUTMSG	*****	GX	02

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR
\$CODES	000000E8 (232.)	02 (2.)	NOPIC USR

	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE
	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.06	00:00:02.40
Command processing	111	00:00:00.46	00:00:04.30
Pass 1	144	00:00:01.09	00:00:10.97
Symbol table sort	0	00:00:00.06	00:00:00.06
Pass 2	52	00:00:00.34	00:00:01.68
Symbol table output	8	00:00:00.04	00:00:00.04
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	354	00:00:02.07	00:00:19.48

The working set limit was 1200 pages.

7421 bytes (15 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 106 non-local and 5 local symbols.

205 source lines were read in Pass 1, producing 16 object records in Pass 2.

14 pages of virtual memory were used to define 12 macros.

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

Macro library name	Macros defined
\$255\$DUA28:[MAIL.OBJ]MAILMAC.MLB;1	1
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	8
TOTALS (all libraries)	9

173 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:HANDLER/OBJ=OBJ:HANDLER MSRC:HANDLER/UPDATE=(ENHS:HANDLER)+EXECMLS/LIB+LIBS:MAILMAC/LIB

0229 AH-BT13A-SE
VAX/VMS V4.0

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