

ASSIGN MISI, (FILE, MAILBX, IDOOTSI)
ASSIGN MICI, (FILE, MAILBX, IDOOCI)
METASYM SI, CI, LB

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PCC 0
MAILBX BUILD 'MAILBOX' FILES IN USER'S ACCOUNTS

NAME: MAILBX

PURPOSE: INFORM USERS OF SYSTEM ACTION TAKEN WITH REGARD TO FILE MAINTENANCE. THE MESSAGE GENERALLY CONSISTS OF THE REASON A SYSTEM BACKUP FAILED OR A COMPLETION MESSAGE CONCERNING SOMETHING THE USER HAS REQUESTED.
DESCRIPTION: THE MAILBX ROUTINE FORMATS A MESSAGE CONTAINING THE CURRENT DATE AND TIME AND THE ACCOUNT NAME WHICH IS REQUESTING THE MAILBOX BE BUILT; THE REST OF THE MESSAGE IS PART OF THE INPUT. THE MESSAGE IS WRITTEN INTO THE SPECIFIED ACCOUNT BY ADDING A RECORD TO AN EXISTING 'MAILBOX' FILE IN THE ACCOUNT OR INTO A NEW ONE IF NONE CURRENTLY EXISTS. THE MESSAGE IS ALSO OPTIONALLY PRINTED ON THE LINE PRINTER.

22	*S*	SYSTEM	SIG7	
23	*S*	SYSTEM	BPM	
24	*X*	DEF	F:MAIL	DCB USED TO CREATE AND WRITE THE
25	*,*			MAILBOX FILE IN A USER'S ACCOUNT
26		DEF	FMAILBX	ENTRY POINT TO BYPASS MITIME CAL
27	*,*			(THE TIME HASN'T CHANGED SINCE LAST
28	*,*			CALL TO MAILBOX)
29		DEF	MAIL	DEF FOR MAILBX PROCEDURE PATCHING
30		DEF	MAILBOX	MAIN ENTRY POINT TO MAILBOX ROUTINE
31		DEF	MAILD	DEF FOR MAILBX DATA PATCHING
32		DEF	NOPRINT	LOCATION WHICH GOVERNS LINE PRINTER
33	*,*			ACTION: 0 => PRINT, NON-0 => NOT
34	*			
35		REF	J:ACCN	JIT LOCATION OF RUNNING ACCOUNT
36	*,*			USED TO LOCATE MAILBOX FILE
37		REF	JULIAN	CONVERTS MITIME TIME INTO JULIAN TIME

H01 11:11 SEP 08, '75

39
40 00000000
41 00000001
42 00000002
43 00000003
44 00000004
45 00000005
46 00000006
47 00000007
48 00000008
49 00000009
50 0000000A
51 0000000B
52 0000000C
53 0000000D
54 0000000E
55 0000000F

*
R0 EQU 0
R1 EQU 1
R2 EQU 2
R3 EQU 3
R4 EQU 4
R5 EQU 5
R6 EQU 6
R7 EQU 7
SR1 EQU 8
SR2 EQU 9
SR3 EQU 10
SR4 EQU 11
D1 EQU 12
D2 EQU 13
D3 EQU 14
D4 EQU 15

DEFINE STANDARD REGISTERS

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57 05 00000
58
59
60
61 05 00000

F:MAIL DSECT
F:MAIL M:DCB

1
(FILE,IMAILBOX),,
(KEYED),(DIRECT),(KEYM,7),,
(INOUT),(SAVE),,
(ERR,ML:ERR),(ABN,ML:ABN)

00000001 N
00080000
05 00002 0A000000 A
05 00003 00000045 07
05 00004 00000046 07
05 00005 80000022 A
05 00006 00000016 N
00000000
00000000
00000000
05 0000A 00000000 F
05 0000B 00000000 A
05 0000C 07000000 A
00000000
05 0000E 00000000 A
05 0000F 00000000 A
00000000
00000000
00000000
05 00013 00000000 A
05 00014 00000000 A
05 00015 00000000 A
05 00016 01000202 A
05 00017 07D4C1C9 A
05 00018 D3C2D6E7 A
05 00019 02000002 A
05 00019 1 01 A

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63	06	00000		MAILD	CSECT	0	
64	06	00000	00000001	ENVIR	DATA	*+1	
65	06	00001	00100000 A		GEN,16,16	16,0	
66	06	00002			RES	16	
67	06	00012		MSGBUF	RES	28	
68	06	0002E	14000000 N	OPENFPT	DATA	X:14000000!+F:MAIL	
69	06	0002F	C1000009 A		DATA	X:C1000009!	
70	06	00030	00000045 07		DATA	ML:ERR	ERR RETURN
71	06	00031	00000046 07		DATA	ML:ABN	ABN RETURN
72	06	00032	00000004 A	INOUT	DATA	4	INOUT USUAL, BUT SOMETIMES
73	06	00033	02010202 A		DATA	X:2010202!	ACCOUNT WHERE MAILBOX
74	06	00034	7AE2E8E2 A	ACCOUNT	TEXT	!SYS !	IS TO BE BUILT.
	06	00035	40404040 A				
75		00000050		MAXSIZ	EQU	80	20 WORD MESSAGE LIMIT
76	06	00036		KEYBUF	RES	2	
77	06	00038	00000000 A	NBPRINT	DATA	0	IF NONZERO, NO LP OUTPUT
78		EXT		SENDER	EQU	J:ACCN	
79		00000040		BLANK	EQU	X:40!	

```

81 *
82 *D* NAME: MAILBOX
83 *D* ENTRY: FMAILBX
84 *D*
85 *D* REGISTERS: ALL ARE PRESERVED
86 *D*
87 *D* CALL: LI,SR3 FPT
88 *D* BAL,SR4 MAILBOX
89 *D*
90 *D* INPUT: FPT => ADDRESS OF TEXT MESSAGE (NO INDIRECT)
91 *D* FPT+1 => ADDRESS OF RECIPIENT ACCOUNT NAME
92 *D* NOPRINT = 0 => PRINT MESSAGE ON LINE PRINTER
93 *D* = 1 => SUPPRESS LINE PRINTER LISTING
94 *D* NOPRINT IS A DEF'ED WORD IN MAILD
95 *D* D4 (R15) = 0 => SUPPRESS FILE BUILDING
96 *D* = 1 => BUILD MAILBOX FILE IN RECIPIENT ACCT
97 *D*
98 *D* INTERFACE: JULIAN
99 *D*
100 *D* ENVIRONMENT: MAPPED, SLAVE OR MASTER, CO PRIVILEGE
101 *D*
102 *D* DESCRIPTION: ALL REGISTERS ARE SAVED UPON ENTRY IN THE STACK
103 *D* (ENVIR); AN MTIME CAL IS THEN ISSUED TO OBTAIN THE
104 *D* CURRENT TIME AND JULIAN IS CALLED TO CONVERT THIS
105 *D* INTO A JULIAN FORMATTED DATE ('00YYODDD', 'HHMM0000').
106 *D* THIS DATE IS USED AS A KEY TO WRITE THE MAILBOX FILE;
107 *D* IF ENTRY IS AT FMAILBX, THE PREVIOUS KEY IS INCRE-
108 *D* MENTED TO MAKE IT UNIQUE FOR EACH WRITE.
109 *D* THE MESSAGE IS THEN PUT TOGETHER; IT HAS THE FORM;
110 *D* 'HHMM MON DD BY BUILDER' FOLLOWED BY TEXT MESSAGE
111 *D* INPUT TO MAILBOX (FPT ABOVE); 'BUILDER' IS THE
112 *D* NAME OF THE ACCOUNT BUILDING THE MAILBOX, USUALLY
113 *D* ISYS. THE 'BUILDER' FOR THE LINE PRINTER MESSAGE IS
114 *D* THE INPUT RECIPIENT ACCOUNT (FPT+1 ABOVE). THUS,
115 *D* TWO DIFFERENT MESSAGES ARE BUILT. (IF THE INPUT
116 *D* MESSAGE IS TOO LONG, I.E. > THAN 80 CHARACTERS, THE
117 *D* ROUTINE DOES NOT BUILD A FILE IN THE USER'S ACCOUNT.)

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118
 119
 120
 121
 122
 123
 124
 125 07 00000
 126 07 00000
 127 07 00000
 128 07 00000 02200000 A
 129 07 00001 00000000 06
 130 07 00002 04800000 02
 02 00000 10000013 06
 131 07 00003 22A00013 06
 132 07 00004 6AB00000 X
 133 07 00005 22600007 A
 134 07 00006 75600008 A
 135 07 00007 35800036 06
 136 07 00008 35900037 06
 137 07 00009 68000000
 138 07 0000A
 139 07 0000A 33100037 06
 140 07 0000B 02200000 A
 141 07 0000C 00000000 06
 142 07 0000D
 143 07 0000D 32A0000C 06
 144 07 0000E 32B0000D 06
 145 07 0000F 3240005C
 146 07 00010 35400016 06
 147 07 00011 32400000 X
 148 07 00012 35400017 06
 149 07 00013 32400001 N
 150 07 00014 35400018 06
 151 07 00015 B240000A A
 152 07 00016 F2700004 A
 153 07 00017 21700050 A

D
D
D
D
D
D
D

MAIL
MAILBOX

FMAILBX

CMAILBX

CSECT 1
 EQU *
 EQU *
 LCI 0
 PSM,R0 ENVIR
 MITIME MSGBUF+1

 LI,SR3 MSGBUF+1
 BAL,SR4 JULIAN
 LI,R6 7
 STB,R6 SR1
 STW,SR1 KEYBUF
 STW,SRP KEYBUF+1
 B CMAILBX
 EQU *
 MTW,1 KEYBUF+1
 LCI 0
 PSM,R0 ENVIR
 EQU *
 LW,SR3 ENVIR+12
 LW,SR4 ENVIR+13
 LW,R4 L(CI BY 1)
 STW,R4 MSGBUF+4
 LW,R4 SENDER
 STW,R4 MSGBUF+5
 LW,R4 SENDER+1
 STW,R4 MSGBUF+6
 LW,R4 *SR3
 LB,R7 *R4
 CI,R7 MAXSIZ

7
 IF D4 (REGISTER 15) = 0, THE MAILBOX FILE IS NOT BUILT
 OTHERWISE, IT IS OPENED IN THE RECIPIENT'S ACCOUNT
 AND THE APPROPRIATE MESSAGE ADDED TO THE FILE.
 (IF THE FILE DOES NOT ALREADY EXIST, A NEW ONE IS BUILT)
 IF NOPRINT = 0, THE LINE PRINTER MESSAGE IS PRINTED;
 OTHERWISE, THE ROUTINE EXITS AFTER CLOSING
 THE F:MAIL DCB (IF IT WAS OPEN) AND PULLING ALL REGS.

7 BYTES FOR KEY
TWO WORD DATE/TIME IS KEY= SR1,SR2

ENTRY FOR NO TIME UPDATE
MAKE KEY UNIQUE

LOCATION OF MSG TO R4
BYTE 0 IS BYTE COUNT OF MSG

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154 07 00018 69200030
 155 07 00019 20700001 A
 156 07 0001A 22600018 A
 157 07 0001B 30600007 A
 158 07 0001C 25400002 A
 159 07 0001D 22500019 06
 160 07 0001E 25500002 A
 161 07 0001F 75700005 A
 162 07 00020 61400000 A
 163 07 00021 22500040 A
 164 07 00022 75500019 06
 165 07 00023 20A00001 A
 166 07 00024 B240000A A
 167 07 00025 B2500004 A
 168 07 00026 46500034 06
 169 07 00027 20400001 A
 170 07 00028 B2700004 A
 171 07 00029 46700035 06
 172 07 0002A 32F00011 06
 173 07 0002B 68300030
 174 07 0002C 22E00004 A
 175 07 0002D 35E00032 06
 177 07 0002E 0410002E 06
 178
 179
 180 07 0002F 04100001 02
 02 00001 11000000 N
 F8000020
 02 00003 00000045 07
 02 00004 00000046 07
 02 00005 00000013 06
 02 00006 80000006 A
 02 00007 00000036 06
 181 07 00030 33000038 06
 182 07 00031 69300038
 183 07 00031 69300038

OPEN

WRIT

EXIT

BG
 AI,7
 LI,R6
 AW,R6
 SLS,R4
 LI,R5
 SLS,R5
 STB,R7
 MBS,R4
 LI,R5
 STB,R5
 AI,SR3
 LW,4
 LW,R5
 XW,R5
 AI,R4
 LW,R7
 XW,R7
 LW,D4
 BEZ
 EQU
 LI,D3
 STW,D3
 CAL,1
 M;WRITE
 EQU
 MTW,0
 BNEZ

EXIT
 1
 6*4
 R7
 2
 MSGBUF+7
 2
 R5
 0
 BLANK
 MSGBUF+7
 1
 *SR3
 *R4
 ACCOUNT
 1
 *R4
 ACCOUNT+1
 ENVIR+17
 EXIT
 \$
 4
 INOUT
 OPENFPT
 F;MAIL,(BUF,MSGBUF+1),(SIZE,*R6),,
 (ERR,ML;ERR),(ABN,ML;ABN),,
 (KEY,KEYBUF),(NEWKEY)

MSG TOO LONG
 6 WORD FIXED PREFIX
 ADD MSG LENGTH FOR RECORD LNG
 BYTE ADDRESS
 BYTE ADDRESS
 BYTE 0 IS CHARACTER COUNT
 LOCATE RECIPIENT
 PICK UP ACCT POINTER
 FIRST WORD OF ACCT
 WAS MAILBOX ADDITION REQUESTED
 NO

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184	07	00032	32400034	06	LW,4	ACCBUNT
185	07	00033	35400017	06	STW,4	MSGBUF+5
186	07	00034	32400035	06	LW,4	ACCBUNT+1
187	07	00035	35400018	06	STW,4	MSGBUF+6
188	07	00036	32400050		LW,R4	= ' !
189	07	00037	35400012	06	STW,R4	MSGBUF
190	07	00038	20600003	A	AI,R6	3
191	07	00039	75600012	06	STB,R6	MSGBUF
192	07	0003A	04200008	02	MIPRINT	(MESS,MSGBUF)

02	00008	01000000	A
02	00009	80000000	A
02	0000A	00000012	06

193	07	00039		EXIT05	EGU	*	
194	07	0003B	52000000	05	LW,R0	F:MAIL	IS DCB OPEN
195	07	0003C	21000020	A	CI,R0	XI201	
196	07	0003D	6840003F		BAZ	XIT1	NO, DON'T CLOSE
197	07	0003E	0410000B	02	CLOSE	MICLOSEF	F:MAIL,(SAVE)

02	0000B	15000000	N
		80000000	
02	0000D	00000002	A

198	07	0003F		XIT1	EGU	*	
199	07	0003F	02200000	A	LCI	0	
200	07	00040	35500034	06	STW,R5	ACCBUNT	
201	07	00041	35700035	06	STW,R7	ACCBUNT+1	
202	07	00042	0A000000	06	PLM,R0	ENVIR	
203	07	00043	E800000B	A	B	*SR4	
204	07	00044	0F00003C	A	SLP	GEN,8,24	XIF1,60

1 MINUTE SLEEP

```

206
207
208
209      07 00045      MLIERR  EQU      *
210      07 00045      68000030      B      EXIT
211      07 00046      MLIABN  EQU      *
212      07 00046      7240000A A    LB,R4   SR3
213      07 00047      21400003 A    CI,R4   3      NON EXISTENT FILE
214      07 00048      6930004D      BNE     LP1
215      07 00049      22E00002 A    LI,D3   2
216      07 0004A      35E00032 06   STW,D3  INOUT   OPEN FILE OUTPUT
217      07 0004B      0410002E 06   CAL1,1  OPENFPT
218      07 0004C      6800002F      B      WRIT
219      07 0004D      21400016 A    LP1     CI,R4   X:16:   KEY ALREADY EXISTS
220      07 0004E      69300051      BNE     LP2
221      07 0004F      66100037 06   AWM,R1  KEYBUF+1
222      07 00050      6800002F      B      WRIT
223      07 00051      21400014 A    LP2     CI,R4   X:14:   MAYBE BUSY
224      07 00052      69300030      BNE     EXIT
225      07 00053      22100001 A    LI,R1   1
226      07 00054      7242000A A    LB,R4   SR3,R1
227      07 00055      2540007F A    SLS,R4  =1     7 BIT SUB CODE
228      07 00056      21400001 A    CI,R4   1
229      07 00057      69300030      BNE     EXIT   NOT BUSY
230      07 00058      04800044      CAL1,8  SLP     SLEEP A MINUTE
231      07 00059      20200001 A    AI,R2   1
232      07 0005A      69200030      BGZ     EXIT
233      07 0005B      6800002C      B      OPEN
234
      07 0005C      40C2F840 A
      07 0005D      40404040 A
    
```

CONTROL SECTION SUMMARY: 01 00000 PT 0 02 0000E PT 0 03 00000 PT 1 04 00000 PT 0
 05 00024 PT 1 06 00039 PT 0 07 0005E PT 1

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* SYMBOL VALUES

ACCBUNT/06 00034
 D1/0000000C
 ENVIR/06 00000
 KEYBUF/06 00036
 MAXSIZ/00000050
 NMASK/FUNC
 R1/00000001
 R5/00000005
 SLP/07 00044
 SR4/0000000B

* EXTERNAL DEFINITIONS

FMAIL/05 00000
 MAILD/06 00000

* PRIMARY REFERENCES

JACCN JULIAN

* NO SECONDARY REFERENCES
 * NO UNDEFINED SYMBOLS
 * ERROR SEVERITY LEVEL 0
 * NO ERROR LINES

BLANK/00000040
 D2/0000000D
 EXIT/07 00030
 LP1/07 0004D
 MLIABN/07 00046
 SPEN/07 0002C
 R2/00000002
 R6/00000006
 SR1/00000008
 WRIT/07 0002F

FMAILBX/07 0000A
 NPRINT/06 00038

MILL

CLOSE/07 0003E
 D3/0000000E
 EXIT05/07 0003B
 LP2/07 00051
 MLIERR/07 00045
 SPENFPT/06 0002E
 R3/00000003
 R7/00000007
 SR2/00000009
 XIT1/07 0003F

MAIL/07 00000

CMAILBX/07 0000D
 D4/0000000F
 INBUT/06 00032
 MASK/FUNC
 MSGBUF/06 00012
 R0/00000000
 R4/00000004
 SENDER/EXT
 SR3/0000000A

MAILBXX/07 00000