EXAMPLES

```
MM      MM    AAAAAA      IIIIII   LL            UU      UU    AAAAAA      FFFFFFFFFF
MM      MM    AAAAAA      IIIIII   LL            UU      UU    AAAAAA      FFFFFFFFFF
MMMM  MMMM   AA     AA      II     LL            UU      UU   AA     AA    FF
MMMM  MMMM   AA     AA      II     LL            UU      UU   AA     AA    FF
MM  MM  MM   AA     AA      II     LL            UU      UU   AA     AA    FF
MM  MM  MM   AA     AA      II     LL            UU      UU   AA     AA    FF
MM      MM   AA     AA      II     LL            UU      UU   AA     AA    FFFFFFFF
MM      MM   AAAAAAAAAA     II     LL            UU      UU   AAAAAAAAAA   FFFFFFFF
MM      MM   AAAAAAAAAA     II     LL            UU      UU   AAAAAAAAAA   FF
MM      MM   AA     AA      II     LL            UU      UU   AA     AA    FF
MM      MM   AA     AA      II     LL            UU      UU   AA     AA    FF          ::::
MM      MM   AA     AA    IIIIII   LLLLLLLLLL   UUUUUUUUUU   AA     AA    FF          ::::
MM      MM   AA     AA    IIIIII   LLLLLLLLLL   UUUUUUUUUU   AA     AA    FF          ....


     CCCCCCCC     000000    MM      MM
     CCCCCCCC     000000    MM      MM
  CC            00     00   MMMM  MMMM
  CC            00     00   MMMM  MMMM
  CC            00     00   MM  MM  MM
  CC            00     00   MM  MM  MM
  CC            00     00   MM      MM
  CC            00     00   MM      MM
  CC            00     00   MM      MM
  CC            00     00   MM      MM
  CC            00     00   MM      MM
     CCCCCCCC     000000    MM      MM
     CCCCCCCC     000000    MM      MM
```

```
$ !++
$ !
$ !    MAILUAF.COM - Modify SYS$SYSTEM:VMSMAIL.DAT
$ !
$ !    ABSTRACT:  Sample command procedure to modify
$ !               SYS$SYSTEM:VMSMAIL.DAT
$ !
$ !               This command procedure will prompt
$ !               the user for a command.  The valid
$ !               commands are:
$ !
$ !               ADD username    - Add a new user to SYS$SYSTEM:VMSMAIL.DAT
$ !               CANCEL username - Cancel mail forwarding for username
$ !               EXIT            - Exit from this procedure
$ !               HELP            - Type help message
$ !               MODIFY username - Modify mail forwarding address for username
$ !               REMOVE username - Remove username from SYS$SYSTEM:VMSMAIL.DAT
$ !               SHOW username   - Display mail information about username
$ !               LIST            - List forwarding addresses for all users
$ !
$ !
$ !    REQUIRED PRIVILEGES:
$ !               BYPASS
$ !
$ !
$ !    IMPLICIT OUTPUT:
$ !               SYS$SYSTEM:VMSMAIL.DAT will be created if it does
$ !               not exsist.
$ !
$ !
$ !--
$ if = "IF"
$ inquire = "INQUIRE"
$ open = "OPEN"
$ goto = "GOTO"
$ write = "WRITE"
$ create = "CREATE"
$ type = "TYPE"
$ read = "READ"
$ close = "CLOSE"
$ exit = "EXIT"
$ ask = "inquire/nopunctuation"
$ prev_priv = f$setprv("SYSPRV")
$ sysmai = "SYS$SYSTEM:VMSMAIL.DAT"
$ open /share=write /read /write /error=no_file f1 'sysmai'
$ goto file_open
$no_file:
$ write sys$output sysmai," not found...creating new file"
$ create /fdl=sys$input 'sysmai'            !Create new VMSMAIL.DAT
IDENT   VMS MAIL Information data file

FILE
        ALLOCATION            10
        BEST_TRY_CONTIGUOUS   yes
        BUCKET_SIZE           2
```

```
            CONTIGUOUS                no
            EXTENSION                 10
            GLOBAL_BUFFER_COUNT       0
            ORGANIZATION              indexed
            OWNER                     [001,004]
            PROTECTION                (system:RWE, owner:RWE, group:, world:)

RECORD
            BLOCK_SPAN                yes
            CARRIAGE_CONTROL          none
            FORMAT                    variable
            SIZE                      0

AREA 0
            ALLOCATION                10
            BEST_TRY_CONTIGUOUS       yes
            BUCKET_SIZE               2
            CONTIGUOUS                no
            EXTENSION                 10

KEY 0
            CHANGES                   no
            DATA_KEY_COMPRESSION      yes
            DATA_RECORD_COMPRESSION   yes
            DATA_AREA                 0
            DATA_FILL                 100
            DUPLICATES                no
            INDEX_AREA                0
            INDEX_COMPRESSION         yes
            INDEX_FILL                100
            LEVEL1_INDEX_AREA         0
            NULL_KEY                  no
            PROLOGUE                  3
            SEG0_LENGTH               31
            SEG0_POSITION             0
            TYPE                      string
$ open /share=read /read /write f1 'sysmai'
$file_open:
$ on control_y then goto done
$ !
$ ! Main loop.  Get command and username then dispatch
$ !
$do_command:
$ ask line "MAILUAF> "
$ line:='line
$ if line .eqs. "" then goto done
$ t1 = f$locate(" ",line)
$ command = f$extract(0,t1,line)
$ user = f$extract(t1+1,31,line)
$ if f$locate(command,"HELP") .eq. 0 then goto help_user
$ if f$locate(command,"EXIT") .eq. 0 then goto done
$ if f$locate(command,"LIST") .eq. 0 then goto list_users
$ if user .eqs. "" then goto syntaxerr
$ fulluser[0,31]:='user'
$ if f$locate(command,"ADD") .eq. 0 then goto add_user
$ if f$locate(command,"CANCEL") .eq. 0 then goto cancel_user
```

```
$ if f$locate(command,"MODIFY") .eq. 0 then goto modify_user
$ if f$locate(command,"REMOVE") .eq. 0 then goto remove_user
$ if f$locate(command,"SHOW") .eq. 0 then goto show_user
$help_user:
$ type sys$input:

 ADD username            Add a new user
 CANCEL username         Cancel forwarding for a user
 EXIT                    Exit from MAIUAF
 HELP                    Type this
 MODIFY username         Modify forwarding address for a user
 REMOVE username         Remove a user completely
 SHOW username           Show MAIL information about user
 LIST                    List forwarding addresses for all users in VMSMAIL.DAT

$ goto do_command
$add_user:
$ read /index=0 /err=add_10 /key='"'fulluser'"' f1 record
$ write sys$output "User '",user," record already exists"
$ goto do_command
$add_10:
$ s1 = '"'record'"'
$ if f$length(s1) .ne. 0 then $ delete/symbol record
$ record[0,31]:='user'
$ record[248,288]=0
$ ask address "Forwarding address? "
$ t1 = f$length(address)
$ record[536,8]='t1'
$ record[68,'t1']:='address'
$ write f1 record
$ write sys$output "User ",user," added"
$ goto do_command
$cancel_user:
$ read /index=0 /err=nosuchuser/key='"'fulluser'"' f1 record
$ address = f$extract(68,255,record)
$ addr_length = f$cvui(67*8,8,record)
$ address := 'address'
$ naddress = f$extract(0,addr_length,address)
$ t2 = f$length(address)
$ t2 = 't2' - 'addr_length'
$ if addr_length .eq. 0 then goto show_10
$ write sys$output "User ",user,", forwarding address is ",naddress
$ ask yn "Cancel mail forwarding? "
$ if .not. yn then goto do_command
$ record[536,8]=0
$ record[68,255] := '"'f$extract(68+addr_length,255-addr_length,record)'"'
$ record = f$extract(0,68+'t2',record)
$ write /update f1 record
$ goto do_command
$list_users:
$ close f1
$ open /share=write /read /write f1 'sysmai'
$ write sys$output ""
$ write sys$output "Username                          Forwarding address"
$ write sys$output "--------                          -------------------"
$list_10:
```

```
$ read /end=do_command f1 record
$ user = f$extract(0,31,record)
$ addr_length = f$cvui(67*8,8,record)
$ address = f$extract(68,255,record)
$ address := 'address'
$ address = f$extract(0,addr_length,address)
$ write sys$output user,"          ",address
$ goto list_10
$ goto do_command
$modify_user:
$ read /index=0 /err=nosuchuser /key="'''fulluser'''" f1 record
$ address = f$extract(68,255,record)
$ addr_length = f$cvui(67*8,8,record)
$ naddress = f$extract(0,addr_length,address)
$ t2 = f$length(address)
$ if addr_length .ne. 0 then goto xx1
$ write sys$output "User ",user," does not have forwarding enabled"
$ goto xx2
$xx1:
$ write sys$output "Current forwarding address is ",naddress
$xx2:
$ ask naddress "New forwarding address? "
$ if naddress .eqs. "" then goto do_command
$ address = f$extract(addr_length,t2-addr_length,address)
$ t1 = f$length(naddress)
$ record[536,8]='t1'
$ record[68,255]:="'''naddress''''address'''"
$ record = f$extract(0,68+t1+t2,record)
$ write /update f1 record
$ write sys$output "User ",user," modified"
$ goto do_command
$nosuchuser:
$ write sys$output "User ",user," record does not exist"
$ goto do_command
$remove_user:
$ read /index=0 /err=nosuchuser/key="'''fulluser'''" f1 record
$ address = f$extract(68,255,record)
$ addr_length = f$cvui(67*8,8,record)
$ address := 'address'
$ if addr_length .eq. 0 then goto xx0
$ address = f$extract(0,addr_length,address)
$ write sys$output "User ",user,", forwarding address is ",address
$ goto xx9
$xx0:
$ write sys$output "User ",user," does not have forwarding enabled"
$xx9:
$ ask yn "Remove? "
$ if .not. yn then goto do_command
$ read /index=0/key="'''fulluser'''" /delete f1 record
$ goto do_command
$show_user:
$ read /index=0 /err=nosuchuser /key="'''fulluser'''" f1 record
$ address = f$extract(68,255,record)
$ addr_length = f$cvui(67*8,8,record)
$ fnmlng=f$cvui(66*8,8,record)
$ dirlng=f$cvui(65*8,8,record)
```

```
$ address := 'address'
$ full_name := ""'f$extract(68+addr_length,fnmlng,record)'"
$ dir_spec  = f$extract(addr_length+fnmlng,dirlng,address)
$ if dirlng .eq. 0 then goto no_dir
$ write sys$output "User ",user,", MAIL subdirectory is ",dir_spec
$ goto test_full_name
$no_dir:
$ write sys$output "User ",user," did not specify a MAIL subdirectory"
$test_full_name:
$ if fnmlng .eq. 0 then goto no_pers_name
$ write sys$output "User ",user,", MAIL personal name is ",full_name
$ goto check_forward
$no_pers_name:
$ write sys$output "User ",user," does not have a MAIL personal name."
$check_forward:
$ if addr_length .eq. 0 then goto show_10
$ address = f$extract(0,addr_length,address)
$ write sys$output "User ",user,", forwarding address is ",address
$ goto do_command
$show_10:
$ write sys$output "User ",user," does not have forwarding enabled"
$ goto do_command
$syntaxerr:
$ write sys$output "Command syntax error"
$ goto do_command
$done:
$ close f1
$ prev_priv = f$setprv(prev_priv)
$ exit
```

EXCREQ
R32

MAILCVT
COM

SYSGTTSTR
MSG

EXCCOPY
LIS

USSLNK
COM

EXCDEFS
SDL

EXCLIB
B32

EXCCLDTBL
LIS

MAILUAF
COM

USSTSTLNK
COM

EXCHNG

XATEST
COM

EXCHANGE
MAP

LABIO
OPT

MSCPMOUNT
COM

LABIOCIN
OPT

EXCCMD
LIS

DRCOPY
PRM