


```

MM      MM      MM      MM      GGGGGGGG      CCCCCCCC      RRRRRRRR      TTTTTTTTTT      FFFFFFFFFF      IIIIIII      LL
MM      MM      MM      MM      GGGGGGGG      CCCCCCCC      RRRRRRRR      TTTTTTTTTT      FFFFFFFFFF      IIIIIII      LL
MMM     MMM     MMM     MMM     GG          CC          RR          TT          FF          II          LL
MMM     MMM     MMM     MMM     GG          CC          RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG          CC          RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG          CC          RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG          CC          RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG          CC          RRRRRRRR      TT          FFFFFFFF      II          LL
MM      MM      MM      MM      MM      MM      GG          CC          RRRRRRRR      TT          FFFFFFFF      II          LL
MM      MM      MM      MM      MM      MM      GG      GGGGGG      CC          RR  RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG      GGGGGG      CC          RR  RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG          GG          CC          RR  RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GG          GG          CC          RR  RR          TT          FF          II          LL
MM      MM      MM      MM      MM      MM      GGGGGG      CCCCCCCC      RR          RR          TT          FF          IIIIIII      LLLLLLLLLL
MM      MM      MM      MM      GGGGGG      CCCCCCCC      RR          RR          TT          FF          IIIIIII      LLLLLLLLLL

```

```

LL      IIIIIII      SSSSSSSS
LL      IIIIIII      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
LLLLLLLLLLLL      IIIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIIII      SSSSSSSS

```

....
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MEMORY MANAGEMENT SERVICES TEST SUPPORT

.TITLE MMGCRTFIL - CREATES A FILE 10 PAGES LONG
.IDENT 'V04-000'

```

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```

THIS PROGRAM CREATES A FILE N PAGES LONG (N BEING SET BY NOPAGES).
THIS FILE IS USED BY SEVERAL OF THE SYSTEM SERVICES IN THE MEMORY
MANAGEMENT TESTS.

```

0000000A 0000 39 .TITLE CRTFIL ; CREATE A FILE
0000000A 0000 40 .LIST MEB
0000000A 0000 41 NOPAGES=10 ; LENGTH OF FILE
00000000 0000 42
00000000 0000 43 .PSECT DATA NOEXE,WRT
00000000 0000 44
00000000 0000 45 NEWFAB: $FAB -
00000000 0000 46 FNM=<MMGTST.DAT;1>, -
00000000 0000 47 ALQ=NOPAGES, -
00000000 0000 48 FOP=SUP, -
00000000 0000 49 FAC=<BR0,UPD>, -
00000000 0000 50 MRS=512, -
00000000 0000 51 RFM=FIX
00000000 .SAVE LOCAL_BLOCK
00000000 .RESTORE
00000000 03 0000 .BYTE FAB$C_BID
00000000 50 0001 .BYTE FAB$C_BLN
00000050 0002 .BLKB FAB$C_BLN-2
00000004 0050 .=$$.TAB+FAB$S_FOP
00000004 0004 .ADDRESS $$$.TMP
00000010 0008 .=$$.TAB+FAB$S_ALQ
0000000A 0010 .ADDRESS NOPAGES
00000000 0000 0014 .WORD 0
00000000 48 0016 .BYTE $$$.TMP
00000000 00 0017 .BYTE $$$.TMP
00000000 0018 .ADDRESS 0
00000000 00 001C .BYTE 0
00000000 00 001D .BYTE FAB$C_SEQ
00000000 00 001E .BYTE $$$.TMP
00000000 01 001F .BYTE FAB$C_FIX
00000000 0020 .ADDRESS 0
00000000 0024 .ADDRESS 0
00000000 0028 .ADDRESS 0
00000000 002C .ADDRESS 0
00000000 0030 .ADDRESS 0
00000000 00 0034 .BYTE 0
00000000 00 0035 .BYTE 0
00000000 0200 0036 .WORD 512
00000000 0038 .ADDRESS 0
00000000 0000 003C .WORD 0
00000000 00 003E .BYTE 0
00000000 00 003F .BYTE 0
00000048 0040 .=$$.TAB+FAB$W_GBC
00000000 0000 0048 .WORD 0
00000000 00 004A .BYTE <<0@FAB$V_LNM_MODE> + <0@FAB$V_CHAN_MODE> + -
00000000 004B .SAVE
00000000 .PSECT $RMSNAM
31 3B 54 41 44 2E 54 53 54 47 4D 4D 0000 .ASCII %MMGTST.DAT;1%
0000004B .RESTORE
0000002C 004B .=$$.TAB+FAB$S_FNA
00000000 002C .ADDRESS $$$.TMPX
00000034 0030 .=$$.TAB+FAB$S_FNS
00000000 0C 0034 .BYTE $$$.TMPX1
00000050 0035 .=$$.TABEND
00000050 52 NEWRAB: $RAB -
00000050 53 FAB=NEWFAB, -
00000050 54 RBF=NEWFAB, -

```

```

0050      55      RSZ=512
0050      .SAVE LOCAL_BLOCK
0050      .PSECT $AB$$,ABS
00000050 .RESTORE
01 0050      .BYTE RAB$C_BID
44 0051      .BYTE RAB$C_BLN
00000094 0052      .BLKB RAB$C_BLN-2
00000054 0094      .=$$,TAB+RAB$L_ROP
00000000' 0054      .ADDRESS $$,TMP
00000068 0058      .=$$,TAB+RAB$L_CTX
00000000' 0068      .ADDRESS 0
0000006E 006C      .=$$,TAB+RAB$B_RAC
00 006E      .BYTE RAB$C_SEQ
00 006F      .BYTE 0
0000 0070      .WORD 0
0200 0072      .WORD 512
00000000' 0074      .ADDRESS 0
00000000' 0078      .ADDRESS NEWFAB
00000000' 007C      .ADDRESS 0
00000000' 0080      .ADDRESS 0
00 0084      .BYTE 0
00 0085      .BYTE 0
00 0086      .BYTE 0
00 0087      .BYTE 0
00000000' 0088      .ADDRESS 0
00000000' 008C      .ADDRESS NEWFAB
00000000' 0090      .ADDRESS 0
0094      56
00000000 57      .PSECT MAIN EXE,NOWRT
0000      58
0000      59 START::
0000 60
0000 61      .WORD 0
00000000'EF DF 0002      $CREATE NEWFAB ;MAKE A NEW FILE & OPEN IT
00000000'GF 01 FB 0008      PUSHAL NEWFAB
33 50 E9 000F 62      CALLS #$$,TMP1,G^SYSS$CREATE
0012 63      BLBC RO,EXIT ;EXIT IF ERROR ENCOUNTERED
00000050'EF DF 0012      $CONNECT NEWRAB ;CONNECT RAB TO FAB
00000000'GF 01 FB 0018      PUSHAL NEWRAB
23 50 E9 001F 64      CALLS #$$,TMP1,G^SYSS$CONNECT
55 0A D0 0022 65      BLBC RO,EXIT ;EXIT IF ERROR ENCOUNTERED
0025 66 100$:      MOVL #NOPAGES,R5 ;SET COUNT FOR PAGES TO WRITE
00000050'EF DF 0025      $WRITE RAB=NEWRAB ;WRITE OUT A PAGE
00000000'GF 01 FB 002B      PUSHAL NEWRAB
10 50 E9 0032 67      CALLS #$$,TMP1,G^SYSS$WRITE
ED 55 F5 0035 68      BLBC RO,EXIT ;EXIT IF ERROR ENCOUNTERED
0038 69      SOBGTR R5,100$ ;LOOP FOR MORE
00000000'EF DF 0038      $CLOSE NEWFAB ;CLOSE FILE
00000000'GF 01 FB 003E      PUSHAL NEWFAB
0045 70 EXIT:      CALLS #$$,TMP1,G^SYSS$CLOSE
50 DD 0045      $EXIT,S RO
00000000'GF 01 FB 0047      PUSHL RO
004E 71      CALLS #1,G^SYS$EXIT
004E 72      .END START

```

CRTFIL
Symbol table

; CREATE A FILE

M 5

16-SEP-1984 02:05:13 VAX/VMS Macro V04-00
5-SEP-1984 11:41:54 [MMGTST.SRC]MMGCRTFIL.MAR;1

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(2)

MM
V0

```

SS.TAB          = 00000050 R    01
SS.TABEND      = 00000094 R    01
SS.TMP         = 00000000
SS.TMP1        = 00000001
SS.TMP2        = 000000AF
SS.TMPX        = 00000000 R    03
SS.TMPX1       = 0000000C
EXIT           = 00000045 R    04
FABS$B_FNS     = 00000034
FABS$C_BID     = 00000003
FABS$C_BLN     = 00000050
FABS$C_FIX     = 00000001
FABS$C_SEQ     = 00000000
FABS$L_ALQ     = 00000010
FABS$L_FNA     = 0000002C
FABS$L_FOP     = 00000004
FABS$V_BRO     = 00000006
FABS$V_CHAN_MODE = 00000002
FABS$V_FILE_MODE = 00000004
FABS$V_LNM_MODE = 00000000
FABS$V_SUP     = 00000002
FABS$V_UPD     = 00000003
FABS$W_GBC     = 00000048
NEWFAB        = 00000000 R    01
NEWRAB        = 00000050 R    01
NOPAGES       = 0000000A G
RABS$B_RAC     = 0000001E
RABS$C_BID     = 00000001
RABS$C_BLN     = 00000044
RABS$C_SEQ     = 00000000
RABS$L_CTX     = 00000018
RABS$L_ROP     = 00000004
START         = 00000000 RG   04
SYSS$CLOSE    = ***** GX   04
SYSS$CONNECT  = ***** GX   04
SYSS$CREATE   = ***** GX   04
SYSS$EXIT     = ***** GX   04
SYSS$WRITE    = ***** GX   04
    
```

↑-----↑
! Psect synopsis !
↑-----↑

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
DATA	00000094 (148.)	01 (1.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
\$ABS\$	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$RMSNAM	0000000C (12.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
MAIN	0000004E (78.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Initialization	17	00:00:00.09	00:00:00.93
Command processing	87	00:00:00.75	00:00:05.00
Pass 1	205	00:00:04.15	00:00:12.67
Symbol table sort	0	00:00:00.29	00:00:00.63
Pass 2	40	00:00:00.81	00:00:03.07
Symbol table output	6	00:00:00.04	00:00:00.26
Psect synopsis output	2	00:00:00.03	00:00:00.08
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	360	00:00:06.17	00:00:22.64

The working set limit was 1050 pages.

37483 bytes (74 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 316 non-local and 1 local symbols.

72 source lines were read in Pass 1, producing 17 object records in Pass 2.

24 pages of virtual memory were used to define 18 macros.

! Macro library statistics !

Macro library name	Macros defined
-----	-----
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	15
TOTALS (all libraries)	15

561 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:MMGCRTFIL/OBJ=OBJ\$:MMGCRTFIL MSPCS\$:MMGCRTFIL/UPDATE=(ENH\$:MMGCRTFIL)+EXECMLS/LIB

0236 AH-BT13A-SE
VAX/VMS V4.0

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MMGEXPCNT LIS	MMGNSFWSL LIS	MOM MAP
MMGRTDEL LIS		
MMGCRDLS LIS		
MMGRTFIL LIS	MMGLKWULW LIS	MMGXQUOTA LIS
		MMGSETPRT LIS
		MOM