

VVV		VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIII	0000000000	
VVV		VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIII	0000000000	
VVV		VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIII	0000000000	
VVV		VVV	MMMMMM	MMMMMM	SSS	LLL	III	000	000
VVV		VVV	MMMMMM	MMMMMM	SSS	LLL	III	000	000
VVV		VVV	MMMMMM	MMMMMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSSSSSSSSS	LLL	III	0000000000	
VVV		VVV	MMM	MMM	SSSSSSSSSS	LLL	III	0000000000	
VVV		VVV	MMM	MMM	SSSSSSSSSS	LLL	III	0000000000	
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSS	LLL	III	000	000
VVV		VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIII	0000000000	
VVV		VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIII	0000000000	
VVV		VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIII	0000000000	

[illegible]

(2) 47
(3) 88

DECLARATIONS
CREATE AND MAP SECTION


```
0000 1      .TITLE  LIB$CREMAPSEC - CREATE AND MAP A SECTION
0000 2      .IDENT  'V04-000'
0000 3
0000 4
0000 5      *****
0000 6      *
0000 7      *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 23     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24     *
0000 25     *
0000 26     *****
0000 27     :
0000 28     :
0000 29     :++
0000 30     : FACILITY:
0000 31     :
0000 32     : ABSTRACT:
0000 33     :
0000 34     :
0000 35     : ENVIRONMENT:
0000 36     :
0000 37     : AUTHOR: PETER H. LIPMAN , CREATION DATE: 22-MAY-77
0000 38     :
0000 39     : MODIFIED BY:
0000 40     :
0000 41     :      V0207  BLS0125      Benn Schreiber      1-Jan-1982
0000 42     :      Change module name to lib$cremapsec, and do not invoke
0000 43     :      $secdef globally.
0000 44     :
0000 45     :--
```



```
0000 47      .SBTTL  DECLARATIONS
0000 48  :
0000 49  : INCLUDE FILES:
0000 50  :
0000 51      $ATRDEF      ;FILE ATTRIBUTE BLOCK DEFINITIONS
0000 52      $FABDEF      ;FILE ACCESS BLOCK DEFINITIONS
0000 53      $SECDEF      ;DEFINE SECTION FLAGS
0000 54      $XABDEF      ;EXTENDED ATTRIBUTE BLOCK DEFINITIONS
0000 55  :
0000 56  : MACROS:
0000 57  :
0000 58  :
0000 59  : EQUATED SYMBOLS:
0000 60  :
0000 61  :
0000 62  : OFFSETS FROM AP
0000 63  :
0000 64      $OFFSET 4,POSITIVE,<-
0000 65      INADR,-      ;INPUT ADDRESS RANGE
0000 66      RETADR,-     ;RETURN ADDRESS RANGE
0000 67      FLAGS,-     ;SECTION FLAGS
0000 68      GSDNAM,-    ;GLOBAL SECTION NAME DESCRIPTOR
0000 69      RELPAG,-    ;RELATIVE PAGE IN SECTION TO START MAPPING
0000 70      FILNAM,-    ;FILE NAME DESCRIPTOR
0000 71      PAGCNT,-    ;MAX PAGE COUNT TO CREATE
0000 72      VBN,-      ;STARTING VIRTUAL BLOCK IN FILE TO CREATE SE
0000 73      ACMODE,-    ;ACCESS MODE OF SECTION
0000 74      CHANADR,-   ;ADDRESS OF CHANNEL TO BE USED/RETURNED
0000 75      >
0004      INADR:
0008      RETADR:
000C      FLAGS:
0010      GSDNAM:
0014      RELPAG:
0018      FILNAM:
001C      PAGCNT:
0020      VBN:
0024      ACMODE:
0028      CHANADR:
0000 76  :
0000 77  : OFFSETS FROM FP
0000 78  :
0000 79      $OFFSET 0,NEGATIVE,<-
0000 80      SVACMODE,-   ;SAVED ACMODE PARAMETER IF PRESENT
0000 81      <FAB,FAB$C BLN>,-
0000 82      <SCRATCHSIZE,0>-
0000 83      >          ;FAB
                        ;SIZE OF SCRATCH AREA
FFFC      SVACMODE:
FFAC      FAB:
FFAC      SCRATCHSIZE:
0000 84  :
0000 85  : OWN STORAGE:
0000 86  :
```



```
0000 88 .SBTTL CREATE AND MAP SECTION
0000 89 :++
0000 90 : FUNCTIONAL DESCRIPTION:
0000 91 :
0000 92 : THIS ROUTINE PROVIDES A SLIGHTLY SIMPLER INTERFACE TO THE
0000 93 : CREATE AND MAP SECTION SYSTEM SERVICE. IT'S FUNCTION HOWEVER IS
0000 94 : IDENTICAL, I.E. TO CREATE AND MAP A SECTION.
0000 95 :
0000 96 : CALLING SEQUENCE:
0000 97 :
0000 98 : CALLG  ARGLIST,CREMAPSEC
0000 99 :
0000 100 : INPUT PARAMETERS:
0000 101 :
0000 102 : INADR(AP)      = ;INPUT ADDRESS RANGE TO MAP
0000 103 : RETADR(AP)    = ;RETURN ADDRESS RANGE
0000 104 : FLAGS(AP)     = ;SECTION CONTROL FLAGS
0000 105 : GSDNAM(AP)    = ;GLOBAL SECTION NAME DESCRIPTOR
0000 106 : RELPAG(AP)    = ;RELATIVE PAGE IN SECTION TO START MAPPING
0000 107 : FILNAM(AP)    = ;DESCRIPTOR OF FILE NAME STRING
0000 108 : PAGCNT(AP)   = ;SIZE OF SECTION TO CREATE
0000 109 : VBN(AP)      = ;STARTING VBN OF FILE TO CREATE SECTION FROM
0000 110 :                ;IF THE ABOVE 2 PARAMETERS ARE LEFT OUT
0000 111 :                ;THE SECTION STARTS AT VBN 1 OF THE FILE
0000 112 :                ;AND IS THE FILE LENGTH IN SIZE
0000 113 : PFN(AP)       = ;IF PFNMAPPING, IS STARTING PFN TO MAP
0000 114 :                ;TO NOT VBN
0000 115 :
0000 116 : ACMODE(AP)    = ;OPTIONAL PARAMETER SPECIFYING ACCESS MODE
0000 117 : CHANADR(AP)   = ;OPTIONAL PARAMETER SPECIFYING EITHER
0000 118 :                ;ADDRESS OF CHANNEL TO USE OR ADDRESS
0000 119 :                ;TO HOLD RETURNED CHANNEL USED
0000 120 :
0000 121 : IMPLICIT INPUTS:
0000 122 :
0000 123 : NONE
0000 124 :
0000 125 : OUTPUT PARAMETERS:
0000 126 :
0000 127 : RO = SYSTEM STATUS CODE
0000 128 :
0000 129 : IMPLICIT OUTPUTS:
0000 130 :
0000 131 : CHANNEL USED IS RETURNED VIA OPTIONAL PARAMETER, CHANADR.
0000 132 :
0000 133 : COMPLETION CODES:
0000 134 :
0000 135 : NONE
0000 136 :
0000 137 : SIDE EFFECTS:
0000 138 :
0000 139 : NONE
0000 140 :
0000 141 :--
```


6E	0054	8F	00	5E	AC	AE	DE	0000	143	.LIST	MEB				
								0000	144						
								00000000	145	.PSECT	_LIB\$CODE PIC,SHR,BYTE,RD,EXE,NOWRT				
								0000	146						
			02				006C	0000	147	.ENTRY	LIB\$CREMAPSEC,^M<R2,R3,R5,R5,R6>				
							11	0002	148	BRB	START				
								0004	149						
							007C	0004	150	.ENTRY	LIB\$ CREMAPSEC,^M<R2,R3,R4,R5,R6>				
							DE	0006	151	START:	MOVAL	SCRATCHSIZE(SP),SP ;RESERVE SCRATCH STORAGE			
							2C	000A	152		MOVCL	#0,(SP),#0,#-SCRATCHSIZE,(SP) ;ZERO THE SCRATCH STORAGE			
							D1	0012	153		CMPL	(AP),#<ACMODE/4> ;IS ACCESS MODE PARAMETER PRESENT?			
							05	0015	154		BLSS	20\$;BRANCH IF NOT			
							D0	0017	155		MOVL	ACMODE(AP),SVACMODE(FP) ;YES, SAVE IT IN A TEMP			
							D0	001C	156	20\$:	MOVL	FLAGS(AP),R4 ;GET CONTROL FLAGS			
							E1	0020	157		BBC	#SECSV GBL,R4,40\$;BRANCH IF PROCESS SECTION			
							7D	0024	158		MOVQ	@INADR(AP),R2 ;SAVE INPUT ADDRESS RANGE			
								0028	159			;COULD BE OVERWRITTEN BY RETADR IN			
								0028	160			;AN UNSUCCESSFUL MGBLSC ATTEMPT			
							51	D4	0028	CLRL	R1	;ASSUME NO RELATIVE PAGE OFF. SPECIFIED			
							04	54	10	E1	002A	162	BBC	#SECSV PFNMAP,R4,25\$;BRANCH IF NOT PFNMAP-ING	
							51	14	AC	D0	002E	163	MOVL	RELPAG(AP),R1 ;GET RELATIVE PAGE OFFSET	
											0032	164	25\$:	\$MGBLSC	S -
											0032	165			INADR=@INADR(AP),- ;ADDRESS OF INPUT ADDRESS RANGE
											0032	166			RETADR=@RETADR(AP),- ;ADDRESS OF RETURN ADDRESS RANGE
											0032	167			FLAGS=R4,- ;SECTION FLAGS
											0032	168			ACMODE=SVACMODE(FP),- ;ACCESS MODE
											0032	169			GSDNAM=@GSDNAM(AP),- ;ADDRESS OF GLOBAL SECTION NAME
											0032	170			RELPAG=R1 ;RELATIVE PAGE IN SECTION
							51	DD	0032		PUSHL	R1			
							00	DD	0034		PUSHL	#0			
							10	BC	7F	0036	PUSHAQ	@GSDNAM(AP)			
							54	DD	0039		PUSHL	R4			
							FC	AD	DD	003B	PUSHL	SVACMODE(FP)			
							08	BC	7F	003E	PUSHAQ	@RETADR(AP)			
							04	BC	7F	0041	PUSHAQ	@INADR(AP)			
							00000000	'GF	07	FB	0044	CALLS	#7,G^SYSS\$MGBLSC		
							03	50	E9	004B	171	BLBC	R0,35\$		;BRANCH ON ERROR MAPPING FILE
							00BC	31	004E	172	BRW	EXIT			;BRANCH IF SUCCESSFUL, ALL DONE
											0051	173	35\$:	IFNOWRT	#8,@INADR(AP),40\$;UNLESS INPUT RANGE IS READ ONLY
							04	BC	08	00	0D	0051			PROBEW #0,#8,@INADR(AP)
											13	0056			BEQL 40\$
							04	BC	52	7D	0058	174	MOVQ	R2,@INADR(AP)	;RESTORE INPUT ADDRESS RANGE
							0A	6C	D1	005C	175	40\$:	CMPL	(AP),#<CHANADR/4>	;WAS CHANADR SPECIFIED?
								0D	19	005F	176	BLSS	50\$		;BR IF NOT SPECIFIED
											0061	177	IFNORD	#4,@CHANADR(AP),50\$	;CAN THE LOCATION BE READ?
							28	BC	04	00	0C	0061			PROBER #0,#4,@CHANADR(AP)
											13	0066			BEQL 50\$
							56	28	BC	D0	0068	178	MOVL	@CHANADR(AP),R6	;GET CHANNEL SPECIFIED BY USER
											12	006C			;DON'T OPEN FILE IF CHAN PROVIDED
							55	AC	AD	DE	006E	180	50\$:	MOVAL	FAB(FP),R5 ;ADDRESS OF FAB
											0072	181			
											0072	182			
							65	5003	8F	B0	0072	183	ASSUME	FAB\$B BLN EQ FAB\$B BID+1	;ASSUME THESE ARE ADJACENT
							50	18	AC	D0	0077	184	MOVW	#<FAB\$C BLN@8 + FAB\$C_BID>,FAB\$B BID(R5)	;SET ID AND SIZE OF FAB
											13	007B	MOVL	FILNAM(AP),R0	;GET ADDRESS OF FILNAM DESC
							50	18	BC	7D	007D	186	BEQL	100\$	;BR ON SECTION NOT MAPPED TO A FILE
							34	A5	50	90	0081	187	MOVQ	@FILNAM(AP),R0	;GET SIZE AND ADDRESS OF FILE NAME STRING
													MOVQ	R0,FAB\$B_FNS(R5)	;SIZE OF FILE NAME STRING


```

      2C A5 51 D0 0085 188 MOVL R1,FAB$L_FNA(R5) ;ADDRESS OF FILE NAME STRING
      08 54 03 E1 0089 189 BBC #SECSV_WRT,R4,60$ ;BRANCH IF NOT MAPPING FOR WRITE
      04 54 01 E0 008D 190 BBS #SECSV_CRF,R4,60$ ;COPY ON REF IS STILL READ ONLY
      16 A5 01 90 0091 191 MOVB #FAB$M_PUT,FAB$B_FAC(R5) ;ACCESS FOR WRITING
00 04 A5 11 E2 0095 192 60$: BBSS #FAB$V_UFO,FAB$L_FOP(R5),80$ ;SET USER FILE OPEN
      65 DF 009A 193 80$: $OPEN (R5) ;OPEN THE FILE
00000000'GF 01 FB 009C CALLS $$$,TMP1,G^SYSS$OPEN
      67 50 E9 00A3 194 BLBC R0,EXIT ;BRANCH IF FAILED
      56 0C A5 D0 00A6 195 MOVL FAB$L_STV(R5),R6 ;GET CHANNEL FROM FAB
      0A 6C D1 00AA 196 CMPL (AP),#<CHANADR/4> ;DOES CALLER WANT THE CHANNEL RETURNED?
      0B 19 00AD 197 BLSS 100$ ;BR IF DOES NOT WANT CHANNEL
      00 AF 198 IFNOWRT #4,@CHANADR(AP),100$ ;CHECK CHAN ADR CAN BE WRITTEN
28 BC 04 00 0D 00AF PROBEM #0,#4,@CHANADR(AP)
      04 13 00B4 BEQL 100$
      28 BC 56 D0 00B6 199 MOVL R6,@CHANADR(AP) ;SET RETURN CHANNEL NUMBER
      06 54 10 E0 00BA 200 100$: BBS #SECSV_PFNMAP,R4,110$ ;BRANCH IF PFNMAP-ING
      51 14 AC D0 00BE 201 MOVL RELPAG(AP),R1 ;GET RELATIVE PAGE TO MAP
      04 11 00C2 202 BRB 200$ ;GO TRY TO CREATE SECTION
      51 D4 00C4 203 110$: CLRL R1 ;SET REL PAG AS 0
      56 D4 00C6 204 CLRL R6 ;SET NO FILE TO MAP TO
      00 C8 205 200$: $CRMPSC_S - ;CREATE AND MAP SECTION
      00 C8 206 -INADR=@INADR(AP),- ;INPUT RANGE DESCRIPTOR
      00 C8 207 RETADR=@RETADR(AP),- ;RETURN RANGE DESCRIPTOR
      00 C8 208 FLAGS=R4,- ;SECTION FLAGS
      00 C8 209 ACMODE=SVACMODE(FP),- ;ACCESS MODE OF SECTION
      00 C8 210 GSDNAM=@GSDNAM(AP),- ;GLOBAL SECTION NAME DESCRIPTOR
      00 C8 211 RELPAG=R1,- ;RELATIVE PAGE IN SECTION TO MAP
      00 C8 212 CHAN=R6,- ;CHANNEL TO FILE
      00 C8 213 PAGCNT=PAGCNT(AP),- ;NO. OF SECTION PAGES TO CREATE
      00 C8 214 VBN=VBN(AP) ;STARTING VIRTUAL BLOCK IN SECTION
      7E 7C 00C8 CLRQ -(SP)
      20 AC DD 00CA PUSHL VBN(AP)
      1C AC DD 00CD PUSHL PAGCNT(AP)
      7E 56 3C 00D0 MOVZWL R6,-(SP)
      51 DD 00D3 PUSHL R1
      00 DD 00D5 PUSHL #0
      10 BC 7F 00D7 PUSHAQ @GSDNAM(AP)
      54 DD 00DA PUSHL R4
      FC AD DD 00DC PUSHL SVACMODE(FP)
      08 BC 7F 00DF PUSHAQ @RETADR(AP)
      04 BC 7F 00E2 PUSHAQ @INADR(AP)
00000000'GF 0C FB 00E5 CALLS #12,G^SYSS$CRMPSC
      50 DD 00EC 215 PUSHL R0 ;SAVE CRMPSC STATUS CODE
      1B 54 00 E1 00EE 216 BBC #SECSV_GBL,R4,EXIT ;BRANCH IF NOT GLOBAL SECTION
      51 18 AC D0 00F2 217 MOVL FILNAM(AP),R1 ;GET ADR OF FILE NAME DESC
      15 13 00F6 218 BEQL EXIT ;BR ON NO CHANNEL TO DEASSIGN
      0A 6C D1 00F8 219 CMPL (AP),#<CHANADR/4> ;DOES CALLER WANT THE CHANNEL RETURNED?
      0D 18 00FB 220 BGEQ 300$ ;BR IF DOES WANT CHANNEL
      00 FD 221 $DASSGN_S CHAN=R6 ;DEASSIGN THE CHANNEL FOR GLOBAL SECTION
      7E 56 3C 00FD MOVZWL R6,-(SP)
00000000'GF 01 FB 0100 CALLS #1,G^SYSS$DASSGN
      03 50 E9 0107 222 BLBC R0,EXIT ;RETURN DEASSIGN CHANNEL ERROR
      50 8E D0 010A 223 300$: POPL R0 ;RETURN CRMPSC STATUS CODE
      04 010D 224 EXIT: RET ;AND RETURN TO CALLER
      010E 225
      010E 226 .END
```


LIB\$CREMAPSEC
Symbol table

- CREATE AND MAP A SECTION

F 4

16-SEP-1984 02:15:27
5-SEP-1984 04:38:59VAX/VMS Macro V04-00
[VMSLIB.SRC]CREMAPSEC.MAR;1Page 6
(4)

```
$$TMP1      = 00000001
$$TMP2      = 00000065
$$T1        = 00000000
ACMODE      = 00000024
CHANADR      = 00000028
DIR...      = FFFFFFFF
EXIT        = 0000010D R      02
FAB         = FFFFFFFFAC
FAB$B_BID   = 00000000
FAB$B_BLN   = 00000001
FAB$B_FAC   = 00000016
FAB$B_FNS   = 00000034
FAB$C_BID   = 00000003
FAB$C_BLN   = 00000050
FAB$C_FNA   = 0000002C
FAB$C_FOP   = 00000004
FAB$C_STV   = 0000000C
FAB$M_PUT   = 00000001
FAB$V_UFO   = 00000011
FILNAM      = 00000018
FLAGS       = 0000000C
GSDNAM      = 00000010
INADR       = 00000004
LIB$CREMAPSEC = 00000000 RG      02
LIB$ CREMAPSEC = 00000004 RG      02
PAGCNT      = 0000001C
RELPAG      = 00000014
RETADR      = 00000008
SAVABS...   = FFFFFFFFAC
SCRATCHSIZE = FFFFFFFFAC
SECSV_CRF   = 00000001
SECSV_GBL   = 00000000
SECSV_PFNMAP = 00000010
SECSV_WRT   = 00000003
START       = 00000006 R      02
SVACMODE    = FFFFFFFFC
SYSSCRMPSC  = ***** GX      02
SYSSDASSGN  = ***** GX      02
SYSSMGBLSC  = ***** GX      02
SYSSOPEN    = ***** GX      02
VBN         = 00000020
```

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

PSECT name

```
ABS
$ABSS
_LIB$CODE
```

Allocation

```
00000000 ( 0.)
FFFFFFFC ( 0.)
0000010E ( 270.)
```

PSECT No.

```
00 ( 0.)
01 ( 1.)
02 ( 2.)
```

Attributes

```
NOPIC  USR
NOPIC  USR
PIC    USR
```

```
CON
CON
CON
```

```
ABS
ABS
REL
```

```
LCL
LCL
LCL
```

```
NOSHR
NOSHR
SHR
```

```
NOEXE
EXE
EXE
```

```
NORD
RD
RD
```

```
NOWRT
WRT
NOWRT
```

```
NOVEC
NOVEC
NOVEC
```

```
BYTE
BYTE
BYTE
```


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

Phase	Page faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Initialization	48	00:00:00.11	00:00:00.62
Command processing	159	00:00:00.83	00:00:05.86
Pass 1	206	00:00:04.94	00:00:14.24
Symbol table sort	0	00:00:00.41	00:00:00.82
Pass 2	53	00:00:01.02	00:00:02.45
Symbol table output	5	00:00:00.06	00:00:00.06
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	476	00:00:07.40	00:00:24.08

The working set limit was 1350 pages.

28075 bytes (55 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 373 non-local and 11 local symbols.

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

26 pages of virtual memory were used to define 23 macros.

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

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	18
TOTALS (all libraries)	20

590 GETS were required to define 20 macros.

There were no errors, warnings or information messages.

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

0435 AH-BT13A-SE
VAX/VMS V4.0

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