



```

RRRRRRRR      MM      MM      11      PPPPPPPP      UU      UU      TTTTTTTTTT      RRRRRRRR      EEEEEEEEEEE      CCCCCCCC
RRRRRRRR      MM      MM      11      PPPPPPPP      UU      UU      TTTTTTTTTT      RRRRRRRR      EEEEEEEEEEE      CCCCCCCC
RR      RR      MMMM      MMMM      1111      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RR      RR      MMMM      MMMM      1111      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RR      RR      MM      MM      11      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RR      RR      MM      MM      11      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RRRRRRRR      MM      MM      11      PPPPPPPP      UU      UU      TTTTTTTTTT      RRRRRRRR      EEEEEEEEEEE      CCCCCCCC
RRRRRRRR      MM      MM      11      PPPPPPPP      UU      UU      TTTTTTTTTT      RRRRRRRR      EEEEEEEEEEE      CCCCCCCC
RR      RR      MM      MM      11      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RR      RR      MM      MM      11      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RR      RR      MM      MM      11      PP      PP      UU      UU      TT      RR      RR      EE      CC      CCCCCC
RR      RR      MM      MM      111111      PP      UUUUUUUUUU      TT      RR      RR      EEEEEEEEEEE      CCCCCCCC
RR      RR      MM      MM      111111      PP      UUUUUUUUUU      TT      RR      RR      EEEEEEEEEEE      CCCCCCCC

```

```

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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

RM1  
Sym  
SS.  
SSR  
SSR  
SSR  
SSR  
BDB  
BDB  
BDB  
BDB  
BDB  
BDB  
CCT  
CR  
DEV  
DEV  
DEV  
DEV  
ERR  
EXI  
EXI  
FAB  
FAB  
FAB  
FAB  
FAB  
FAB  
FAB  
FAB  
FAB  
FAB  
FAB  
FF  
FTN  
IFB  
IFB  
IFB  
IFB  
IFB  
IMP  
IMP  
IRB  
IRB  
IRE  
IRE  
IRE  
IRE  
IRE  
LF  
LF  
MAF  
MOV  
MOV  
NO1  
NO1  
NTP  
PIC  
PRI  
RAE  
RAE  
RAE  
RAE

(2)	90
(3)	135
(4)	180

DECLARATIONS  
RMSMAPFTN - ROUTINE TO CONVERT FROM FTN TO PRN FORMAT  
RMSPUT\_UNIT\_REC

```
0000 1          $BEGIN RM1PUTREC,000,RMSRMS1,<INTERNAL PUT SEQ FOR UNIT RECORD DEVICE>
0000 2
0000 3
0000 4 :*****
0000 5 :*
0000 6 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 19 :*  CORPORATION.
0000 20 :*
0000 21 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 22 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :**
0000 28 : Facility: rms32
0000 29 :
0000 30 : Abstract:
0000 31 :         this module performs a $put for the sequential file
0000 32 :         organization on a unit record device.
0000 33 :
0000 34 : Environment:
0000 35 :         star processor running starlet exec.
0000 36 :
0000 37 : Author: L F Laverdure,          creation date: 17-FEB-19-77
0000 38 :
0000 39 : Modified By:
0000 40 :
0000 41 :         V03-004 JEJ0001          J E Johnson          27-Feb-1984
0000 42 :         Correct the mishandling of the fixed control field in
0000 43 :         VFC process permanent files when accessed across the network.
0000 44 :
0000 45 :         V03-003 JAK0131          J A Krycka          06-Feb-1984
0000 46 :         Fix bug preventing return of RFA for network access.
0000 47 :
0000 48 :         V03-002 KBT0145          Keith B. Thompson    20-Aug-1982
0000 49 :         Reorganize psects
0000 50 :
0000 51 :         V03-001 KBT0083          Keith B. Thompson    13-Jul-1982
0000 52 :         Clean up psects
0000 53 :
0000 54 :         V02-022 KPL0001          Peter Lieberwirth    31-Dec-1981
0000 55 :         Fix more broken branches.
0000 56 :
0000 57 :         V02-021 TMK0043          Todd M. Katz          26-Dec-1981
```



```
0000 90 .SBTTL DECLARATIONS
0000 91
0000 92
0000 93 : Include Files:
0000 94 :
0000 95 :
0000 96 :
0000 97 : Macros:
0000 98 :
0000 99 :
0000 100 $IRBDEF
0000 101 $RABDEF
0000 102 $IFBDEF
0000 103 $DEVDEF
0000 104 $FABDEF
0000 105 $BDBDEF
0000 106 $IMPDEF
0000 107 $RMSDEF
0000 108
0000 109 :
0000 110 : Equated Symbols:
0000 111 :
0000 112 :
00000020 0000 113 SPACE=32
0000000A 0000 114 LF=10
0000000B 0000 115 VT=11
0000000C 0000 116 FF=12
0000000D 0000 117 CR=13
0000 118
0000 119 :
0000 120 : Own Storage:
0000 121 :
0000 122 :
0000 123 : fortran to 'pre/post' standard carriage control mapping table
0000 124 :
0000 125 :
0000 126 CCTL_TABLE:
0000 127
8D 01 20 0000 128 .BYTE ^A/ /,1,128+CR ; entries are fortran byte, pre, post
8D 02 30 0003 129 .BYTE ^A/O/,2,128+CR ; " " - single space
8D 8C 31 0006 130 .BYTE ^A/I/,128+FF,128+CR ; "0" - double space
8D 00 2B 0009 131 .BYTE ^A/+/ ,0,128+CR ; "1" - form feed
00 01 24 000C 132 .BYTE ^A/$/,1,0 ; "+" - overprint
00 00 00 000F 133 .BYTE 0,0,0 ; "$" - prompt
; null
```

```

0012 135      .SBTTL RMSMAPFTN - ROUTINE TO CONVERT FROM FTN TO PRN FORMAT
0012 136
0012 137      :++
0012 138      : RMSMAPFTN - This routine converts the fortran carriage control
0012 139      : character in R0 into the equivalent pre/post carriage
0012 140      : control word.
0012 141      :
0012 142      : Calling sequence:
0012 143      :
0012 144      :     bsbw    rmsmapftn
0012 145      :
0012 146      : inputs:
0012 147      :
0012 148      :     r0      fortran carriage control character
0012 149      :
0012 150      : outputs:
0012 151      :
0012 152      :     r2      pre/post carriage control word
0012 153      :
0012 154      : note: this routine always succeeds. no other registers destroyed.
0012 155      :
0012 156      :--
0012 157
0012 158 RMSMAPFTN::
52  EB AF 9E 0012 159      MOVAB    B^CCTL_TABLE,R2          ; addr of mapping table
   82 50 91 0016 160 10$:    CMPB     RO,(R2)+          ; match on char?
   OA 13 0019 161      BEQL     MAPCTL          ; branch if yes
   82 B5 001B 162      TSTW    (R2)+          ; bump to next entry
   F7 12 001D 163      BNEQ    10$          ; continue if more
001F 164
001F 165      :
001F 166      : no match - give default of line feed before, cr after
001F 167      :
001F 168
001F 169      ASSUME   IRBSB_POST_CCTL EQ IRBSB_PRE_CCTL+1
52  8D01 8F B0 001F 170      MOVW    #1+<<T28+CR>@8>,R2      ; lf=rec-cr
   05 0024 171      RSB
0025 172
0025 173      :
0025 174      : pick up pre and post cctl from table
0025 175      :
0025 176
   52  62 B0 0025 177 MAPCTL: MOVW    (R2),R2          ; get pre and post
   05 0028 178      RSB
  
```

```

0029 180      .SBTTL  RM$PUT_UNIT_REC
0029 181
0029 182      :++
0029 183      RM$PUT_UNIT_REC - This routine performs a $PUT to a unit
0029 184      record device, setting carriage control as required
0029 185      and handling crossing of block boundaries.
0029 186
0029 187      Calling sequence:
0029 188
0029 189      bsbw  rm$put_unit_rec
0029 190
0029 191      Input Parameters:
0029 192
0029 193      r11  impure area pointer
0029 194      r10  ifab addr
0029 195      r9   irab addr
0029 196      r8   rab addr
0029 197      r6   user record size
0029 198      r5   user record addr (first block probed)
0029 199
0029 200      Implicit Inputs:
0029 201
0029 202      the contents of the rab and related irab and ifab.
0029 203
0029 204      Output Parameters:
0029 205
0029 206      r0    status code
0029 207      r1-r7 destroyed
0029 208
0029 209      Implicit Outputs:
0029 210
0029 211      The RAB and the internal structures are updated to reflect
0029 212      the results of the put. (see functional spec).
0029 213
0029 214      Completion Codes:
0029 215
0029 216      standard rms.
0029 217
0029 218      Side Effects:
0029 219
0029 220      none
0029 221
0029 222      --
0029 223

```

```

0029 225 RMSPUT_UNIT_REC::
0029 226 $STSTPT PUTREC1
54 20 A9 D0 002F 227 MOVL IRB$L_CURBDB(R9),R4 ; get current bdb addr
04 12 0033 228 BNEQ 10$
54 3C A9 D0 0035 229 MOVL IRB$L_NXTBDB(R9),R4 ; so use nextbdb instead then
0039 230
0039 231 :++
0039 232
0039 233 : determine required carriage control
0039 234
0039 235 : 4 types of carriage control may be specified:
0039 236 none = record
0039 237 fab$v_cr = lf-record-cr
0039 238 fab$v_ftn = 1st char of record determines, as follows:
0039 239 space = lf - record - cr
0039 240 0 = lf,lf - record - cr
0039 241 1 = ff - record - cr
0039 242 $ = lf - record
0039 243 + = record - cr
0039 244 null = record
0039 245 other = lf - record - cr
0039 246 fab$v_prn = print file carriage control specified in vfc header
0039 247 as a pre and post field indicating carriage control
0039 248 to be performed before and after printing the
0039 249 record. the pre and post carriage control bytes
0039 250 have the following format:
0039 251
0039 252 bit 7 = 0
0039 253 bits 6-0 give # of new lines
0039 254 bit 7 = 1
0039 255 bit 6 = 0
0039 256 bit 5 = 0
0039 257 bits 4-0 give the ascii control character
0039 258 to print (c0 set)
0039 259 bit 5 = 1
0039 260 bits 4-0 give the ascii control character
0039 261 to print (c1 set)
0039 262 bit 6 = 1
0039 263 bit 5 = 0
0039 264 bits 4-0 have device-specific interpretation
0039 265 (reserved)
0039 266 bit 5 = 1
0039 267 (reserved)
0039 268
0039 269 :--
0039 270
0039 271 ASSUME IRB$B_POST_CCTL EQ IRB$B_PRE_CCTL+1
0039 272 ASSUME IMP$W_RMSSTATUS EQ 0
0039 273 ASSUME IMP$V_IIOS EQ 0
04 0D E0 0039 274 10$: BBS #DEV$V NET,- ; If we are a net device,
04 6A 003B 275 IFB$L_PRIM_DEV(R10),15$ ; then force some ccl device processing
01 E1 003D 276 BBC #DEV$V CCL,- ; no cctl if not ccl device
7B 6A 003F 277 IFB$L_PRIM_DEV(R10),MOVDAT1
64 A9 B4 0041 278 15$: CLRW IRB$B_PRE_CCTL(R9) ; initialize (null carriage ctl)
52 51 AA 90 0044 279 MOVW IFB$B_RAT(R10),R2 ; get rat for file
0048 280
0048 281 ;
    
```

```

0048 282 : for a network $put function, determine pre and post carriage control only if
0048 283 : it is a process permanent file in print file format.
0048 284 : note: this avoids fortran carriage control processing for network
0048 285 : non-process permanent files at the local node which is correct
0048 286 : because the carriage control character must be passed to the
0048 287 : remote fal where it will be handled.
0048 288 :
0048 289 :
09 6A 0D E1 0048 290 BBC #DEVSV NET,(R10),20$ : branch if not network access
69 6B E8 004C 291 BLBS (R11),MOVDAT : branch if not ppf
65 52 02 E1 004F 292 BBC #FABSV_PRN,R2,MOVDAT : branch if not a 'print' file
07 11 0053 293 BRB 30$ : process pre/post carriage control
0D 52 02 E1 0055 294 20$: BBC #FABSV_PRN,R2,NOTPRN : branch if not a 'print' file
41 6B E8 0059 295 BLBS (R11),PRNFMT : branch if not ppf
005C 296 :
005C 297 :
005C 298 : this is a process-permanent print file.
005C 299 : extract rat value from isi.
005C 300 :
005C 301 :
52 02 A8 08 06 EF 005C 302 30$: EXTZV #RABSV_PPF_RAT,#RABSS_PPF_RAT,RABSW_ISI(R8),R2
37 52 02 E0 0062 303 BBS #FABSV_PRN,R2,PRNFMT : branch if print format
0066 304 :
0066 305 :
0066 306 : check for cr, ftn, or no carriage control
0066 307 :
0066 308 :
45 52 01 E0 0066 309 NOTPRN: BBS #FABSV_CR,R2,LF_REC_CR ; branch if 'cr'
22 52 E8 006A 310 ASSUME FABSV_FTN EQ 0
006A 311 BLBS R2,FTN_REC ; branch if FTN cctl
006D 312 :
006D 313 :
006D 314 : null carriage control. do nothing unless it's a stream file.
006D 315 :
006D 316 :
006D 317 ASSUME FABSC_STM+1 EQ FABSC_STMLF
006D 318 ASSUME FABSC_STMLF+1 EQ FABSC_STMCR
006D 319 ASSUME FABSC_STMCR EQ FABSC_MAXRFM
50 AA 91 006D 320 CMPB IFBSB_RFMORG(R10),- : stm file?
04 0070 321 #FABSC_STM
45 1F 0071 322 BLSSU MOVDAT : nope, proceed
56 B5 0073 323 TSTW R6 : zero len record
38 13 0075 324 BEQL LF_REC_CR : needs a terminator
32 BB 0077 325 PUSHR #M<R1,R4,R5> : save size, record and buff addr
51 FF A546 9E 0079 326 MOVAB -1(R5)[R6],R1 : setup for term check
50 01 D0 007E 327 MOVL #1,R0 : check only last char
54 50 AA 9A 0081 328 MOVZBL IFBSB_RFMORG(R10),R4 : get format type
FF78' 30 0085 329 BSBW RMSSTM_TERM : check for terminator
32 BA 0088 330 POPR #M<R1,R4,R5> : restore regs
2B 50 E8 008A 331 BLBS R0,MOVDAT : already have a terminator
20 11 008D 332 BRB LF_REC_CR : add one
008F 333 :
008F 334 :
008F 335 : fortran carriage control. pick up control byte and interpret.
008F 336 :
008F 337 :
56 D5 008F 338 FTN_REC:TSTL R6 : zero length record?

```

```

1C 13 0091 339      BEQL  LF_REC_CR      ; branch if yes (same as blank)
56 D7 0093 340      DECL  R6              ; decrement size
50 85 90 0095 341      MOVB  (R5)+,R0        ; get fortran cctl byte
FF77 30 0098 342      BSBW  RMSMAPFTN      ; and map to pre/post format
17 11 009B 343      BRB   MOVPREPOST
      009D 344
      009D 345 :
      009D 346 : 'prn' carriage control.
      009D 347 : record header buffer contains explicit 'standard' carriage control.
      009D 348 :
      009D 349 :
50 2C A8 D0 009D 350 PRNFMT: MOVL  RAB$R_RHB(R8),R0      ; get record header buffer addr
      15 13 00A1 351      BEQL  MOVDAT          ; branch if none (=null cctl)
      00A3 352      IFNORD #2,(R0),ERRRHB      ; branch if rhb not readable by caller
64 A9 60 B0 00A9 353      MOVW  (R0),IRB$B_PRE_CCTL(R9) ; set carriage control
      09 11 00AD 354      BRB   MOVDAT
      00AF 355
      00AF 356 :
      00AF 357 : line feed before, carriage return after record
      00AF 358 :
      00AF 359 :
52 8D01 8F B0 00AF 360 LF_REC_CR:
      00AF 361      MOVW  #1+<<128+CR>@8>,R2      ; convert to pre/post format
      00B4 362
      00B4 363 MOVPREPOST:
64 A9 52 B0 00B4 364      MOVW  R2,IRB$B_PRE_CCTL(R9) ; save in irab for print

```

```

00B8 366
00B8 367
00B8 368 ; move data record into buffer
00B8 369 ;
00B8 370
00B8 371 MOVDAT:
35 6A 3E E0 00B8 372 BBS #IFBSV_DAP,(R10),NTMOVE ; branch if network file access
00BC 373 MOVDAT1: ; return from ntmove
4C A4 55 D0 00BC 374 MOVL R5,BDBSL_CURBUFADR(R4) ; addr of buffer to put from
14 A4 56 B0 00C0 375 MOVW R6,BDBSW_NUMB(R4) ; size to put
64 A5 B0 00C4 376 MOVW IRBSB_PRE_CTL(R9) -
4A A4 00C7 377 BDBSB_PRE_CTL(R4) ; reset carriage control
FF34' 30 00C9 378 BSBW RMSSEQTUR ; put the record
15 50 E9 00CC 379 RO,EXIT
08 6A 05 E1 00CF 380 BBC #DEVSV_SQD,-
18 E1 00D3 381 IFBSL_PRIM_DEV(R10),10$; branch if not magtape
04 6A 00D5 382 BBC #DEVSV_FOR,-
OC A8 10 A9 D0 00D7 383 IFBSL_PRIM_DEV(R10),10$; branch if not foreign
03 6A 3E E0 00DB 384 SSB #IRBSV_EOF,(R9) ; set end of file bit
10 A8 7C 00E0 385 10$: MOVL IRBSL_IOS4(R9),RABSL_STV(R8) ; copy 2nd longword iosb to stv
FF16' 31 00E4 386 BBS #IFBSV_DAP,(R10),EXIT1 ; branch if network access
00E7 387 CLRQ RABSL_RFA0(R8) ; zero rfa
00EA 388 EXIT: BRW RMSEXAMS
00EA 389 EXIT1:
00EA 390
00EA 391 ;++
00EA 392 ;
00EA 393 ; handle bad record neader buffer error
00EA 394 ;
00EA 395 ;--
00EA 396
00EA 397 ERRRHB:
F3 11 00EA 398 RMSERR RHB
00EF 399 BRB EXIT
00F1 400
  
```

```

00F1 402
00F1 403 :++
00F1 404
00F1 405 : network specific code to move record header (if vfc format) and data
00F1 406 : record into one bdb buffer. note: size of header + record can not
00F1 407 : exceed device buffer size ( = bdb buffer size) for this release!!!
00F1 408
00F1 409 :--
00F1 410
00F1 411 NTMOVE:
00F1 412
00F1 413
00F1 414 : check to see if record plus header fit
00F1 415 : ifb$b_fsz is zero for non-vfc record types
00F1 416
00F1 417
50 5F AA 9A 00F1 418 MOVZBL IFB$b_fsz(R10),R0 : fixed size into r0
50 50 56 A0 00F5 419 ADDW2 R6,R0 : total size in r0
4D 1D 00F8 420 BVS 35$ : error if overflow on add
16 A4 50 B1 00FA 421 CMPW R0,BDB$b_size(R4) : fit in buffer?
47 1A 00FE 422 BGTRU 35$ : error if record larger
54 DD 0100 423 PUSHL R4 : save bdb addr
53 18 A4 D0 0102 424 MOVL BDB$b_addr(R4),R3 : addr of buffer to move to
50 50 AA 91 0106 425 CMPB IFB$b_rfmorg(R10),-
03 0109 426 #FAB$b_vfc : is this vfc rec?
29 12 010A 427 BNEQ 20$ : go move it
010C 428
010C 429
010C 430 : move header and record into one buffer and put as one record
010C 431
010C 432
57 53 D0 010C 433 MOVL R3,R7 : save bdb buffer address
7E 55 7D 010F 434 MOVQ R5,-(SP) : push rec addr and size onto stack
56 5F AA 9A 0112 435 MOVZBL IFB$b_fsz(R10),R6 : size of record header
55 2C A8 D0 0116 436 MOVL RAB$b_rhb(R8),R5 : address of header buffer
38 13 011A 437 BEQL 50$ : branch if none spec'd
FEE1' 30 011C 438 BSBW RMS$PROBEREAD : check out header buffer
2C 50 E9 011F 439 BLBC R0,40$ : branch if problems
63 65 56 28 0122 440 MOVCL3 R6,(R5),(R3) : move header part
55 55 8E 7D 0126 441 10$: MOVQ (SP)+,R5 : rec addr to r5, rec len to r6
09 68 E8 0129 442 BLBS (R11),20$ : branch if not ppf
04 51 AA 02 E1 012C 443 BBC #FAB$b_prn,IFB$b_rat(R10),20$ : branch if not a 'print' file
67 64 A9 B0 0131 444 : jam pre/post carriage control into
0135 445 MOVW IRB$b_pre_ctl(R9),(R7) : record header if ppf and prn set
63 65 56 28 0135 446 20$: MOVCL3 R6,(R5),(R3) : move record beyond header
54 8E D0 0139 448 MOVL (SP)+,R4 : get back bdb addr
55 18 A4 D0 013F 449 MOVL BDB$b_addr(R4),R5 : addr of buffer to r5
56 53 55 C3 0140 450 SUBL3 R5,R3,R6 : total length in r6
FF75 31 0144 451 BRW MOVDAT1 : rejoin mainline
0147 452
0147 453
0147 454 : error handling
0147 455
0147 456
96 11 0147 457 35$: RMSERR RSZ : record too big
014C 458 BRB EXIT : exit

```

```
07 BA 014E 459  
014E 460 40$: POPR #^M<R0,R1,R2> ; clean off stack - not same regs  
0150 461 RMSERR RHB ; can not access rhb  
8D 11 0155 462 BRB EXIT ; exit  
0157 463  
63 56 00 63 00 2C 0157 464 50$: MOVCS #0,(R3),#0,R6,(R3) ; supply zero record header  
C7 11 015D 465 BRB 10$ ;  
015F 466  
015F 467 .END
```

\$\$PSECT EP = 00000000  
\$\$RMSTEST = 0000001A  
\$\$RMS\_PBUGCHK = 00000010  
\$\$RMS\_TBUGCHK = 00000008  
\$\$RMS\_UMODE = 00000004  
BDB\$B\_PRE\_CCTL = 0000004A  
BDB\$L\_ADDR = 00000018  
BDB\$L\_CURBUFADR = 0000004C  
BDB\$W\_NUMB = 00000014  
BDB\$W\_SIZE = 00000016  
CCTL\_TABLE = 00000000 R 01  
CR = 0000000D  
DEV\$V\_CCL = 00000001  
DEV\$V\_FOR = 00000018  
DEV\$V\_NET = 0000000D  
DEV\$V\_SQD = 00000005  
ERRRH8 = 000000EA R 01  
EXIT = 000000E4 R 01  
EXIT1 = 000000E7 R 01  
FAB\$C\_MAXRFM = 00000006  
FAB\$C\_STM = 00000004  
FAB\$C\_STMCR = 00000006  
FAB\$C\_STMLF = 00000005  
FAB\$C\_VFC = 00000003  
FAB\$V\_CR = 00000001  
FAB\$V\_FTN = 00000000  
FAB\$V\_PRN = 00000002  
FF = 0000000C  
FTN\_REC = 000C008F R 01  
IFB\$B\_FSZ = 0000005F  
IFB\$B\_RAT = 00000051  
IFB\$B\_RFMORG = 00000050  
IFB\$L\_PRIM\_DEV = 00000000  
IFB\$V\_DAP = 0000003E  
IMP\$V\_IOS = 00000000  
IMP\$W\_RMSSTATUS = 00000000  
IRB\$B\_POST\_CCTL = 00000065  
IRB\$B\_PRE\_CCTL = 00000064  
IRB\$L\_CURBDB = 00000020  
IRB\$L\_IOS4 = 00000010  
IRB\$L\_NXTBDB = 0000003C  
IRB\$V\_EOF = 00000021  
LF = 0000000A  
LF\_REC\_CR = 000000AF R 01  
MAPCTL = 00000025 R 01  
MOVDAT = 000000B8 R 01  
MOVDAT1 = 000000BC R 01  
MOVPREPOST = 000000B4 R 01  
NOTPRN = 00000066 R 01  
NTMOVE = 000000F1 R 01  
PIO\$A\_TRACE = \*\*\*\*\* X 01  
PRNFMT = 0000009D R 01  
RAB\$L\_RFA0 = 00000010  
RAB\$L\_RMB = 0000002C  
RAB\$L\_STV = 0000000C  
RAB\$S\_PPF\_RAT = 00000008  
RAB\$V\_PPF\_RAT = 00000006

RAB\$W\_ISI = 00000002  
RM\$EXRMS \*\*\*\*\* X 01  
RM\$MAPFTN 00000012 RG 01  
RM\$PROBEREAD \*\*\*\*\* X 01  
RM\$PUT\_UNIT\_REC 00000029 RG 01  
RM\$SEQTUR \*\*\*\*\* X 01  
RM\$STM\_TERM \*\*\*\*\* X 01  
RM\$RARB = 0001866C  
RM\$RSZ = 000186A4  
SPACE = 00000020  
TPT\$L\_PUTREC1 \*\*\*\*\* X 01  
VT = 0000000B

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

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
RMSRMS1	0000015F ( 351.)	01 ( 1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.08	00:00:00.85
Command processing	109	00:00:00.78	00:00:04.18
Pass 1	307	00:00:09.93	00:00:30.44
Symbol table sort	0	00:00:01.31	00:00:02.31
Pass 2	89	00:00:02.03	00:00:05.09
Symbol table output	8	00:00:00.09	00:00:00.64
Psect synopsis output	2	00:00:00.02	00:00:00.08
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	547	00:00:14.24	00:00:43.59

The working set limit was 1500 pages.  
56424 bytes (111 pages) of virtual memory were used to buffer the intermediate code.  
There were 60 pages of symbol table space allocated to hold 1066 non-local and 12 local symbols.  
467 source lines were read in Pass 1, producing 14 object records in Pass 2.  
23 pages of virtual memory were used to define 22 macros.

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

Macro library name	Macros defined
-\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	11
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	5
TOTALS (all libraries)	18

1176 GETS were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RM1PUTREC/OBJ=OBJ\$:RM1PUTREC MSRCS\$:RM1PUTREC/UPDATE=(ENHS:RM1PUTREC)+EXECMLS/LIB+LIBS:RMS/LIB

RM  
Sy  
\$  
\$  
\$  
\$  
\$  
\$  
CH  
CH  
DE  
ER  
ER  
ER  
EX  
FA  
FA  
FA  
FA  
FI  
IF  
IF  
IF  
IF  
IF  
IF  
IF  
IF  
IF  
IF  
IR  
IR  
IR  
LE  
LO  
NO  
PI  
RA  
RA  
RM  
RM  
RM  
RM  
ST  
TP  
UD  
VA  
VF  
  
PS  
--  
.  
RM  
SA

