



```

RRRRRRR      MM      MM      222222      CCCCCCCC      000000      NN      NN      NN      NN
RRRRRRR      MM      MM      222222      CCCCCCCC      000000      NN      NN      NN      NN
RR      RR      MMMM      MMMM      22      22      CC      CC      00      00      NN      NN      NN      NN
RR      RR      MMMM      MMMM      22      22      CC      CC      00      00      NN      NN      NN      NN
RR      RR      MM      MM      MM      22      22      CC      CC      00      00      NNNN      NN      NNNN      NN
RR      RR      MM      MM      MM      22      22      CC      CC      00      00      NNNN      NN      NNNN      NN
RRRRRRR      MM      MM      22      22      CC      CC      00      00      NN      NN      NN      NN      NN      NN
RRRRRRR      MM      MM      22      22      CC      CC      00      00      NN      NN      NN      NN      NN      NN
RR      RR      MM      MM      22      22      CC      CC      00      00      NN      NN      NN      NN      NN      NN
RR      RR      MM      MM      22      22      CC      CC      00      00      NN      NN      NN      NN      NN      NN
RR      RR      MM      MM      22      22      CC      CC      00      00      NN      NN      NN      NN      NN      NN
RR      RR      MM      MM      22      22      CC      CC      00      00      NN      NN      NN      NN      NN      NN
RR      RR      MM      MM      2222222222      CCCCCCCC      000000      NN      NN      NN      NN
RR      RR      MM      MM      2222222222      CCCCCCCC      000000      NN      NN      NN      NN

```

```

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

```

(2) 96  
(3) 126

DECLARATIONS  
RMSCONNECT2 - RELATIVE-SPECIFIC CONNECT ROUTINE

```

0000 1          $BEGIN RM2CONN,000,RM$RMS2,<RELATIVE-SPECIFIC CONNECT>
0000 2
0000 3
0000 4 :*****
0000 5 :*
0000 6 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 8 :*  ALL RIGHTS RESERVED.
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0000 18 :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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 :   routine to perform relative file organization specific
0000 32 :   connect stream processing.
0000 33 :
0000 34 : Environment:
0000 35 :   star processor running starlet exec.
0000 36 :
0000 37 : Author: L F Laverdure,          creation date: 19-OCT-1977
0000 38 :
0000 39 : Modified By:
0000 40 :
0000 41 :   V03-007 RAS0125          Ron Schaefer          28-Feb-1983
0000 42 :   Fix bad psect introduced by RAS0119.
0000 43 :
0000 44 :   V03-006 KPL0002          Peter Lieberwirth        21-Jan-1983
0000 45 :   Fix many broken branches.
0000 46 :
0000 47 :   V03-005 RAS0119          Ron Schaefer          19-Jan-1983
0000 48 :   Correct RAS0092 to compute the correct record number for
0000 49 :   the NRP; otherwise you get holes in the record numbers.
0000 50 :
0000 51 :   V03-004 KBT0131          Keith B. Thompson        20-Aug-1982
0000 52 :   Reorganize psects
0000 53 :
0000 54 :   V03-003 KBT0122          Keith B. Thompson        6-Aug-1982
0000 55 :   Remove ref. to set_sldb_adr
0000 56 :
0000 57 :   V03-002 RAS0092          Ron Schaefer          27-Jul-1982

```

```

0000 58 : Correct connect to EOF logic to deal correctly with
0000 59 : sparse files.
0000 60 :
0000 61 : V03-001 JWH0003 Jeffrey W. Horn 16-Mar-1982
0000 62 : Prevent connect to eof and block io to be used together
0000 63 : with relative files.
0000 64 :
0000 65 : V02-016 JWH0002 Jeffrey W. Horn 19-Feb-1982
0000 66 : Fix problem with connect to eof option for shared sequential
0000 67 : files.
0000 68 :
0000 69 : V02-015 JWH0001 Jeffrey W. Horn 26-Oct-1981
0000 70 : Added connect to eof option for relative files. Search
0000 71 : backwards from EBK untill a record is found, set NRP to
0000 72 : that record plus 1.
0000 73 :
0000 74 : V02-014 KPL0001 Peter Lieberwirth 24-Jul-1981
0000 75 : Fix broken branch.
0000 76 :
0000 77 : V02-013 REFORMAT C D Saether 30-Jul-1980 23:07
0000 78 :
0000 79 : V012 CDS0044 C D Saether 22-Oct-1979 15:37
0000 80 : allow for connect to eof option for shared seq file
0000 81 : use seq mbf when shared seq file, blk io bdb handled
0000 82 : by rm$bdballoc now
0000 83 :
0000 84 : V011 JAK0020 J A Krycka 11-Sep-1979 10:00
0000 85 : remove network code.
0000 86 :
0000 87 : V010 CDS0012 C Saether 24-Jul-1979 14:35
0000 88 : remove references to ifb$w_bks_bytes and ifb$w_bks_recs.
0000 89 :
0000 90 : V009 WSK0001 W Koenig 5-Feb-1979 12:50
0000 91 : on errors, branch to rm$ex_nirab_shr instead of rm$ex_nostr
0000 92 : --
0000 93 :
0000 94 :

```

```
0000 96      .SBTTL  DECLARATIONS
0000 97
0000 98      :
0000 99      : Include Files:
0000 100     :
0000 101     :
0000 102     :
0000 103     : Macros:
0000 104     :
0000 105     :
0000 106     $BKDEF
0000 107     $DLCDEF
0000 108     $FABDEF
0000 109     $IFBDEF
0000 110     $IMPDEF
0000 111     $IRBDEF
0000 112     $RABDEF
0000 113     $RMSDEF
0000 114     :
0000 115     :
0000 116     : Equated Symbols:
0000 117     :
0000 118     :
00000020 0000 119     ROP=RAB$L_ROP*8      ; bit offset to rop
0000 120     :
0000 121     :
0000 122     : Own Storage:
0000 123     :
0000 124     :
```

```

0000 126      .SBTTL  RMSCONNECT2 - RELATIVE-SPECIFIC CONNECT ROUTINE
0000 127
0000 128      :++
0000 129      : RMSCONNECT2 - connect for relative file organization
0000 130      : RMSCONNECT_BIO - just to bdb for block i/o connect
0000 131
0000 132      : this module performs the following functions required for
0000 133      : connecting to relative files.
0000 134
0000 135      :     1. performs various validity checks
0000 136      :     2. if connect for block i/o allocate a bdb and exit
0000 137      :     3. allocate bdb's and buffers:
0000 138      :         1 minimum, otherwise system default
0000 139      :     4. perform various irab initializations
0000 140
0000 141      : Calling sequence:
0000 142
0000 143      :     entered via case branch from rm$connect
0000 144
0000 145      : Input Parameters:
0000 146
0000 147      :     r11    impure area address
0000 148      :     r10    ifab address
0000 149      :     r9     irab address
0000 150      :     r8     rab address
0000 151
0000 152      : Implicit Inputs:
0000 153
0000 154      :     the contents of the rab and irab
0000 155
0000 156      : Output Parameters:
0000 157
0000 158      :     r0     status
0000 159
0000 160      : Implicit Outputs:
0000 161
0000 162      :     sets various fields in the irab and ifab.
0000 163
0000 164      : Completion Codes:
0000 165
0000 166      :     the standard rms status code is set into r0 and return
0000 167      :     is made to user (not caller) via rm$exsuc (or rm$ex_nostr
0000 168      :     after calling rm$ccln1 if an error is detected, thus
0000 169      :     deallocating all irab - related internal structures).
0000 170
0000 171      : Side Effects:
0000 172
0000 173      :     none
0000 174
0000 175      :--
0000 176

```

```

0000 178 RMSCONNECT2::
0000 179     $TSTPT  CONNECT2
0006 180
0006 181 ;
0006 182 ; if open or create was done with bro specified (mixed block & record i/o),
0006 183 ; use the bio rop bit to determine whether to connect for block or record
0006 184 ; operations. note: any subsequent connects must be of the same type.
0006 185 ;
0006 186
09 22 AA 06 E5 0006 187     BBCC  #FAB$V_BRO,IFB$B_FAC(R10),5$ ; branch if bro not specified
    OA 68 2B E1 000B 188     BBC   #RAB$V_BIO+ROP,(R8),CHKRFM ; branch if bio not wanted
44 22 AA 05 E3 000F 189     BBCCS #FAB$V_BIO,IFB$B_FAC(R10),RMSCONNECT_BIO ; set block i/o, branch
3F 22 AA 05 E0 0014 190 5$:   BBS   #FAB$V_BIO,IFB$B_FAC(R10),RMSCONNECT_BIO ; branch if block io
    0019 191
    0019 192 ;
    0019 193 ; record i/o.
    0019 194 ;
    0019 195
    50 AA 95 0019 196     ASSUME FAB$C_UDF EQ 0
    03 12 001C 198  CHKRFM: TSTB  IFB$B_RFMORG(R10) ; r'm = undefined?
    013C 31 001E 199     BNEQ   50$ ; continue if no
    54 74 0021 200 50$:   CLRL   R4 ; branch if yes
    0023 201 ; set default for rmsbdballoc
    0023 202 ; to seq disk file
    0023 203 ;
    0023 204 ; calculate cell size for records
    0023 205 ;
    0023 206
    03 50 AA 91 0023 207     CMPB  IFB$B_RFMORG(R10),#FAB$C_VFC ; vfc rec format?
    05 12 0027 208     BNEQ   60$ ; branch if not
62 A9 5F AA 90 0029 209     MOVB  IFB$B_FSZ(R10),IRB$W_CSIZ(R9) ; yes-initialize record size
    06 6A 38 E0 002E 210 60$:   BBS   #IFB$V_SEQFIL,(R10),65$ ; br if shared seq file
    62 A9 B6 0032 211     INCW  IRB$W_CSIZ(R9) ; add in control byte
    54 03 D0 0035 212     MOVL  #3,R4 ; index for relative defaults
    01 50 AA 91 0038 213 65$:   CMPB  IFB$B_RFMORG(R10),#FAB$C_FIX ; fixed rec. len?
    04 13 003C 214     BEQL  70$ ; branch if yes
    62 A9 02 A0 003E 215 70$:   ADDW2 #2,IRB$W_CSIZ(R9) ; add in 2-byte size field
    0042 216
62 A9 60 AA A0 0042 217     ADDW2 IFB$W_MRS(R10),IRB$W_CSIZ(R9) ; & max record size
    0047 218 ; giving total cell size
    55 5E AA 9A 0047 219     MOVZBL IFB$B_BKS(R10),R5 ; get bkt size in blocks
55 55 09 78 004B 220     ASHL  #9,R5,R5 ; r5 gets bkt size in bytes
    55 62 A9 B1 004F 221     CMPW  IRB$W_CSIZ(R9),R5 ; is cell size <= bkt size?
    03 1B 0053 222     BLEQU RMSCONNECT_BIO ; LEQU means record fits
    00F6 31 0055 223     BRW   ERRIFA ; Otherwise means record don't fit
    0058 224 ; so presume file header's been
    0058 225 ; messed with
    0058 226 RMSCONNECT_BIO::
00000000*EF 16 0058 227     JSB   RMSDBALLOC ; allocate appropriate number
    005E 228 ; of buffers using r4 to index
    005E 229 ; to defaults, also allocates
    005E 230 ; a lock bdb if write accessed
    005E 231 ; allocates bdb without buffer
    005E 232 ; for block i/o connect
    005E 233
    03 50 E8 005E 234     BLBS  R0,SETNRP ; continue if success

```



```

06 68 00E4 31 0061 235          BRW  EXIT          ; exit on error
      28  E0 0064 236 SETNRP: BBS  #RABS$V EOF+ROP,(R8),CEOF ; branch if eof bit set in rop
      40 A9 D6 0068 237          INCL  IRB$$_NRP_VBN(R9) ; set nrp to vbn1 (rp = 0)
      FF92' 31 006B 238          BRW  RM$EXSUC      ; exit with success
      006E 239
      006E 240
      006E 241
      006E 242 :++
      006E 243 :
      006E 244 : Connect to EOF Processing
      006E 245 :
      006E 246 :--
      006E 247
OD 6A 38 E1 006E 248 CEOF:  BBC  #IFB$$_SEQFIL,(R10),RELF ; br if rel file
      0072 249
      0072 250
      0072 251 :
      0072 252 : SET NRP for Shared Sequential Files
      0072 253 :
      0072 254
40 A9 74 AA D0 0072 255          MOVL  IFB$$_EBK(R10),IRB$$_NRP(R9) ; set nrp from end block
      03 12 0077 256          BNEQ  1$          ; if non-zero leave it.
      40 A9 D6 0079 257          INCL  IRB$$_NRP(R9) ; else set nrp to record 1
      FF81' 31 007C 258 1$:  BRW  RM$EXSUC      ; exit with success
      007F 259
      007F 260
      007F 261
      007F 262
      007F 263 :
      007F 264 : Search for last record if CONNECT to EOF for relative files
      007F 265 :
      007F 266
03 68 2B E1 007F 267 RELF:  BBC  #RABS$$_BIO+ROP,(R8),5$ ; Branch if not block io,
      009E 31 0083 268          BRW  ERRROP      ; otherwise error.
00000000'EF 16 0086 269 5$:  JSB  RMS$LOCK_PROLOG ; Lock Prolog
      03 50 E8 008C 270          BLBS  R0,10$      ; Continue on success
      00B6 31 008F 271          BRW  EXIT
      00D0 8F BB 0092 272 10$:  PUSHR #^M<R4,R6,R7> ; Save plg bdb adr & R6,R7
      7E 5E AA 9A 0096 273          MOVZBL IFB$$_BKS(R10),-(SP) ; Get Bucket Size
56 74 AA 00B0 CA C3 009A 274          SUBL3  IFB$$_DVBN(R10),IFB$$_EBK(R10),R6 ; Calculate VBN of block past
      56 6E C6 00A1 275          DIVL  (SP),R6 ; last bucket
56 00B0 CA 56 6E 7A 00A4 276          EMUL  (SP),R6,IFB$$_DVBN(R10),R6
      7E 6E 09 78 00AB 277          ASHL  #9,(SP),-(SP) ; Calculate records per block
      57 62 A9 3C 00AF 278          MOVZWL IRB$$_(SIZ(R9),R7 ; Get recordsize longword
      6E 57 C6 00B3 279          DIVL2 R7,(SP)
      00B6 280
      00B6 281
      00B6 282 :
      00B6 283 : Beginning of Bucket Read/Check Loop
      00B6 284 : (SP) : Records per block
      00B6 285 : 4(SP) : Bucket Size as longword
      00B6 286 :
      00B6 287 :
      56 04 AE C2 00B6 288 20$:  SUBL  4(SP),R6 ; Look at preivous bucket
00B0 CA 56 D1 00BA 289          CMPL  R6,IFB$$_DVBN(R10) ; Branch if current VBN less then first
      5E 19 00BF 290          BLSS  60$          ; data block.
      51 56 D0 00C1 291          MOVL  R6,R1 ; Read Bucket with : VBN

```

```

      4C A9  D4 00C4 292      CLRL  IRB$L_RP_OFF(R9)      ;
      00C7 293      $CSHFLAGS 2>      ;
00000000'EF 16 00C9 294      JSB   RMS$READBKT2      ; Go read it
      59 50  E9 00CF 295      BLBC  R0,ERRORE      ; Branch if error
      00D2 296      ASSUME  IMP$W RMSSTATUS EQ 0
36 00000000'9F 04 E0 00D2 297      BBS   #IMP$W,IORUNDOWN,@#PIO$GW_PIOIMPA,50$ ; Exit if rundown in prog
      57  D4 00DA 298      CLRL  R7      ; Count of found records in R7
      00DC 299
      00DC 300
      00DC 301 ;
      00DC 302 ; Loop to Check Bucket for existing records
      00DC 303 ;
      00DC 304 ;
      53 01  D0 00DC 305      MOVL  #1,R3      ; Count the records/bucket
      50 62 A9 3C 00DF 306      MOVZWL IRB$W CSIZ(R9),R0      ; Size of each record
      03 65 03 E1 00E3 307 30$: BBC  #DLC$V_REC,(R5),35$      ; Branch if record does not exist
      57 53  D0 00E7 308      MOVL  R3,R7      ; Save record number if found
      55 50  C0 00EA 309 35$: ADDL2  R0,R5      ; Point at next record
      F2 53 6E F3 00ED 310      AOBLEQ (SP),R3,30$      ; Loop if not last record
      00F1 311
      00000000'EF 16 00F1 312 40$: JSB   RMS$RLNERR      ; Release bucket
      31 50  E9 00F7 313      BLBC  R0,ERRORE      ; Branch if error on release
      57  D5 00FA 314      TSTL  R7      ; Did we find a record?
      B8 13 00FC 315      BEQL  20$      ; No, go look at prev bucket
      00FE 316
      00FE 317 ;
      00FE 318 ; Found a record, compute it's Relative Record Number
      00FE 319 ;
      00FE 320 ;
      56 00B0 CA C2 00FE 321      SUBL  IFB$L_DVBN(R10),R6      ; Number of data blocks before VBN fnd
      56 04 AE C6 0103 322      DIVL  4(SP),R6      ; and compute # buckets before VBN fnd
      56 6E C4 0107 323      MULL  (SP),R6      ; Compute # records before VBN found
40 A9 C1 A647 9E 010A 324      MOVAB 1(R6)[R7],IRB$L_NRP_VBN(R9) ; Compute next record number
      0110 325
      00D0 8E 7C 0110 326 50$: CLRQ  (SP)+      ; Pop temp space
      00000000'EF 16 0112 327      POPR  #*M<R4,R6,R7>      ; Restore plg bdb adr & R6,R7
      FEE1' 31 0116 328      JSB   RMS$RLSPLG      ; Release prolog
      011C 329      BRW   RM$EXSUC
      011F 330
      011F 331 ;
      011F 332 ; At Beginning of file
      011F 333 ;
      011F 334 ;
      011F 335 ;
      40 A9 D6 011F 336 60$: INCL  IRB$L_NRP_VBN(R9)      ; Set nrp to record #1
      EC 11 0122 337      BRB   50$
      0124 338

```

```

0124 340
0124 341 :++
0124 342 :
0124 343 : handle errors
0124 344 :
0124 345 :--
0124 346 :
0124 347 :
0124 348 : EOF and BIO combination illegal for relative files.
0124 349 :
0124 350 :
0124 351 ERRROP:
0124 352           RMSERR      ROP
1A 11 0129 353           BRB      CLNUP
012B 354 :
012B 355 :
012B 356 : read error on bucket, assume EBK messed up.
012B 357 :
012B 358 :
012B 359 ERRERE: CLRQ      (SP)+           ; Pop tmp space
00D0 8E 7C 012B 360           POPR      #^M<R4,R6,R7>           ; Restore plg bdb adr & R6,R7
00000000'EF 8F BA 012D 361           JSB      RMSRLSPLG           ; release prolog
0000827A 8F 50 D1 0131 362           CMPL     RO,#<RMS$_EOF & ^XFFFF> ; end of file error?
05 12 013E 363           BNEQ     CLNUP           ; branch if not
0140 364           RMSERR     IFA           ; assume file header messed up
0145 365 :
0145 366 : fall thru to cleanup
0145 367 :
0145 368 :
0145 369 CLNUP: BSBW      RMS$CLN1           ; deallocate irab
00000000'EF FEB8' 30 0145 370 EXIT:  JMP      RM$EX_NIRAB_SHR ; and exit
17 17 0148 371 :
014E 372 :
014E 373 : calculated that bucket holds 0 records. must be bad data in file header.
014E 374 :
014E 375 :
014E 376 ERRIFA:
OC AB 000185D4 8F D0 014E 377           MOVL     #RMS$_MRS,RAB$_STV(R8) ; stv secondary error code
0156 378           RMSERR     IFA           ; illegal file attributes
E8 11 015B 379           BRB      CLNUP           ; and cleanup
015D 380 :
015D 381 :
015D 382 : undefined record format for record i/o
015D 383 :
015D 384 :
00000000'EF 17 015D 385 ERRRFM: JMP      RMS$CONN_ERRRFM ; go report error
0163 386 :
0163 387           .END

```

RM2CONN  
Symbol table

RELATIVE-SPECIFIC CONNECT

F 1

16-SEP-1984 01:00:47 VAX/VMS Macro V04-00  
5-SEP-1984 16:23:58 [RMS.SRC]RM2CONN.MAR;1

Page 9  
(6)

RM2  
V04

\$\$PSECT_EP	=	00000000		
\$\$TMP	=	00000000		
\$\$RMSTEST	=	0000001A		
\$\$RMS_PBUGCHK	=	00000010		
\$\$RMS_TBUGCHK	=	00000008		
\$\$RMS_UMODE	=	00000004		
CEOF		0000006E	R	01
CHKRFM		00000019	R	01
CLNUP		00000145	R	01
DLCSV_REC	=	00000003		
ERRIFA		0000014E	R	01
ERRORE		0000012B	R	01
ERRRFM		0000015D	R	01
ERRROP		00000124	R	01
EXIT		00000148	R	01
FABSC_FIX	=	00000001		
FABSC_UDF	=	00000000		
FABSC_VFC	=	00000003		
FABSV_BIO	=	00000005		
FABSV_BRO	=	00000006		
IFBSB_BKS	=	0000005E		
IFBSB_FAC	=	00000022		
IFBSB_FSZ	=	0000005F		
IFBSB_RFMORG	=	00000050		
IFBSL_DVBN	=	00000080		
IFBSL_EBK	=	00000074		
IFBSV_SEQFIL	=	00000038		
IFBSW_MRS	=	00000060		
IMPSV_IORUNDOWN	=	00000004		
IMPSW_RMSSTATUS	=	00000000		
IRBSL_NRP	=	00000040		
IRBSL_NRP_VBN	=	00000040		
IRBSL_RP_OFF	=	0000004C		
IRBSW_CSTZ	=	00000062		
PIOSA_TRACE		*****	X	01
PIOSGD_PIOIMPA		*****	X	01
RABSL_ROP	=	00000004		
RABSL_STV	=	0000000C		
RABSV_BIO	=	0000000B		
RABSV_EOF	=	00000008		
RELF		0000007F	R	01
RMSBDBALLOCC		*****	X	01
RMSCLN1		*****	X	01
RMSCONNECT2		00000000	RG	01
RMSCONNECT_BIO		00000058	RG	01
RMSCONN_ERRRFM		*****	X	01
RMSEXSUCC		*****	X	01
RMSEX_NIRAB_SHR		*****	X	01
RMSLOCK_PROLOG		*****	X	01
RMSREADBKT2		*****	X	01
RMSRLNERR		*****	X	01
RMSRLSPLG		*****	X	01
RMSSEOF	=	0001827A		
RMSSEIFA	=	0001C124		
RMSSEMRS	=	000185D4		
RMSSEROP	=	0001867C		
ROP	=	00000020		

SETNRP  
TPTSL\_CONNECT2

00000064 R 01  
\*\*\*\*\* X 01

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

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
RMSRMS2	00000163 ( 355.)	01 ( 1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$AB\$\$	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	00:00:00.60
Command processing	114	00:00:00.68	00:00:05.02
Pass 1	297	00:00:09.32	00:00:27.49
Symbol table sort	0	00:00:01.25	00:00:01.79
Pass 2	77	00:00:01.90	00:00:03.71
Symbol table output	8	00:00:00.10	00:00:00.27
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	530	00:00:13.35	00:00:38.90

The working set limit was 1500 pages.  
51761 bytes (102 pages) of virtual memory were used to buffer the intermediate code.  
There were 50 pages of symbol table space allocated to hold 983 non-local and 14 local symbols.  
387 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	13
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	18

1102 GETS were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RM2CONN/OBJ=OBJ\$:RM2CONN MSRC\$:RM2CONN/UPDATE=(ENH\$:RM2CONN)+EXECMLS/LIB+LIB\$:RMS/LIB



