


```
RRRRRRRR  MM  MM  SSSSSSSS  000000  CCCCCCCC  RRRRRRRR  EEEEEEEEE  AAAAAA  TTTTTTTTTT
RRRRRRRR  MM  MM  SSSSSSSS  000000  CCCCCCCC  RRRRRRRR  EEEEEEEEE  AAAAAA  TTTTTTTTTT
RR  RR  RR  MMM  MMM  SS  SS  SS  00  00  CC  RR  RR  EE  AA  AA  TT
RR  RR  RR  MMM  MMM  SS  SS  SS  00  00  CC  RR  RR  EE  AA  AA  TT
RR  RR  RR  MM  MM  SS  SS  SS  00  0000  CC  RR  RR  EE  AA  AA  TT
RR  RR  RR  MM  MM  SS  SS  SS  00  0000  CC  RR  RR  EE  AA  AA  TT
RRRRRRRR  MM  MM  SSSSSS  SS  SS  SS  00  00  CC  RRRRRRRR  EEEEEEE  AA  AA  TT
RRRRRRRR  MM  MM  SSSSSS  SS  SS  SS  00  00  CC  RRRRRRRR  EEEEEEE  AA  AA  TT
RR  RR  MM  MM  SS  SS  SS  0000  00  CC  RR  RR  EE  AAAAAAAAAA  TT
RR  RR  MM  MM  SS  SS  SS  0000  00  CC  RR  RR  EE  AAAAAAAAAA  TT
RR  RR  MM  MM  SS  SS  SS  00  00  CC  RR  RR  EE  AA  AA  TT
RR  RR  MM  MM  SSSSSSSS  SS  SS  SS  000000  CCCCCCCC  RR  RR  EEEEEEEEE  AA  AA  TT
RR  RR  MM  MM  SSSSSSSS  SS  SS  SS  000000  CCCCCCCC  RR  RR  EEEEEEEEE  AA  AA  TT
                                         ....
                                         ....
                                         ....
                                         ....
```

```
LL  IIIII  SSSSSSSS
LL  IIIII  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
LLLLLLLLLL  IIIII  SSSSSSSS
LLLLLLLLLL  IIIII  SSSSSSSS
```


(2) 105
(3) 133

DECLARATIONS
RMS\$CREATE - \$CREATE ROUTINE

```
0000 1          $BEGIN RMSOCREAT,000,RMSRMS,<DISPATCH FOR CREATE OPERATION>
0000 2
0000 3
0000 4 *****
0000 5 *****
0000 6 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY   *
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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      this module is the highest level control routine
0000 32      to perform the $create function.
0000 33
0000 34 Environment:
0000 35      star processor running starlet exec.
0000 36
0000 37 Author: L F LAVERDURE,      Creation Date: 8-MAY-1977
0000 38
0000 39 Modified By:
0000 40
0000 41 V03-008 RAS0286      Ron Schaefer      3-Apr-1984
0000 42      Revise the searchlist continuation rules/errors.
0000 43
0000 44 V03-007 RAS0244      Ron Schaefer      23-Jan-1984
0000 45      Add $DEVDEF macro.
0000 46
0000 47 V03-006 RAS0198      Ron Schaefer      6-Oct-1983
0000 48      Merge $OPEN and $CREATE searchlist looping logic into
0000 49      a single routine. Update error checking logic to only
0000 50      loop for certain errors, not for all.
0000 51
0000 52 V03-005 RAS0197      Ron Schaefer      5-Oct-1983
0000 53      Add support for searchlists with create-if. The
0000 54      method is to try straight-forward $OPEN on ALL elements
0000 55      of the search list. If no file is found anywhere, then
0000 56      do a create-if ACP operation on the first location.
0000 57
```



```
0000 58 : V03-004 JWH0215 Jeffrey W. Horn 13-Apr-1983
0000 59 : Fix broken branch.
0000 60 :
0000 61 : V03-003 LJA0021 Laurie Anderson 3-Sep-1982
0000 62 : If this is a Restart create operation, then just go and
0000 63 : open the file, using OPEN.
0000 64 :
0000 65 : V03-002 KBT0175 Keith B. Thompson 23-Aug-1982
0000 66 : Reorganize psects and make entry point single '$'
0000 67 :
0000 68 : V03-001 RAS0084 Ron Schaefer 2-Apr-1982
0000 69 : Force stream format files to have RAT non null.
0000 70 :
0000 71 : V02-018 CDS0001 C Saether 5-Feb-1982
0000 72 : Store GBC in ifab from fab.
0000 73 :
0000 74 : V02-017 JAK0068 J A Krycka 29-DEC-1981
0000 75 : Preserve alternate success code on network exit path.
0000 76 :
0000 77 : V02-016 MCN0005 Maria del C. Nasr 10-Feb-1981
0000 78 : Make sure magtape is mounted before creating file.
0000 79 :
0000 80 : V02-015 JAK0048 J A KRYCKA 25-SEP-1980
0000 81 : Move network specific code from RMOCRECOM to this module and
0000 82 : add support for the create-if (CIF) option.
0000 83 :
0000 84 : V014 REFORMAT D M WALP 25-JUL-1980
0000 85 :
0000 86 : V013 RAS0003 R A SCHAEFER 27-NOV-1979
0000 87 : allow any record format for bio access.
0000 88 :
0000 89 : V012 TMH0001 TIM HALVORSEN 13-OCT-1979
0000 90 : fix wildcard check to use the wildcard summary bit
0000 91 : rather than checking explicitly for wc name,type,ver.
0000 92 :
0000 93 : V011 RAN0002 R A NEWELL 1-SEP-1978 12:00
0000 94 : rms32 isam modification. redefinition of entry points to
0000 95 : resolve out of range branches.
0000 96 :
0000 97 : V010 JAK0001 J A KRYCKA 24-AUG-1978 07:53
0000 98 : miscellaneous clean-up prior to decnet v1.0 code freeze.
0000 99 : skip organization dependent code on network operations.
0000 100 :
0000 101 : --
0000 102 :
0000 103 :
```

```

0000 105      .SBTTL  DECLARATIONS
0000 106
0000 107 :
0000 108 : Include Files:
0000 109 :
0000 110 :
0000 111 :
0000 112 : Macros:
0000 113 :
0000 114 :
0000 115      $DEVDEF
0000 116      $IFBDEF
0000 117      $FIBDEF
0000 118      $FABDEF
0000 119      $FWADEF
0000 120      $RMSDEF
0000 121
0000 122 :
0000 123 : Equated Symbols:
0000 124 :
0000 125 :
00000020 0000 126      FOP=      FAB$L_FOP*8      ; bit offset to file options longword
0000 127
0000 128 :
0000 129 : Own Storage:
0000 130 :
0000 131

```



```
0000 133      .SBTTL  RMS$CREATE - $CREATE ROUTINE
0000 134
0000 135      :++
0000 136      RMS$CREATE
0000 137
0000 138      RMS$CREATE -
0000 139
0000 140      this routine performs the highest level $create processing.
0000 141      its functions include:
0000 142
0000 143      1. common setup and checks
0000 144      2. dispatch to organization-dependent code
0000 145      which calls common create routines
0000 146
0000 147
0000 148      Calling sequence:
0000 149
0000 150      entered from exec as a result of user's calling sys$create
0000 151      (e.g., by using the $create macro).
0000 152
0000 153      Input Parameters:
0000 154
0000 155      ap      user's argument list addr
0000 156
0000 157      Implicit Inputs:
0000 158
0000 159      the contents of the fab and possible related user interface
0000 160      blocks.
0000 161
0000 162      Output Parameters:
0000 163
0000 164      r0      status code
0000 165      r1      destroyed
0000 166
0000 167      Implicit Outputs:
0000 168
0000 169      the various fields of the fab are filled in to reflect
0000 170      the status of the created open file. (see rms functional spec for
0000 171      a complete list.)
0000 172      an ifab is initialized to reflect the created file.
0000 173
0000 174      a completion ast is queued if so specified by the user.
0000 175
0000 176      Completion Codes:
0000 177
0000 178      standard rms (see functional spec for list).
0000 179
0000 180      Side Effects:
0000 181
0000 182      none
0000 183
0000 184      --
0000 185
```

```
0000 187 SENTRY RMSS$CREATE
0000 188 $STSTPT CREATE
0006 189 BSBW RMS$SETI ; do common setup
0009 190
03 69 3B E1 0009 191 BBC #IFBSV_RESTART,(R9),3$ ; See if this is a restart operation.
FFFO' 31 000D 192 BRW RMS$OPEN_ALT ; Yes, just make it an open call.
0010 193
0010 194
0010 195 ; NOTE: DOES NOT RETURN ON ERROR
0010 196
0010 197 ; an ifab has been set up
0010 198 ; perform various checks
0010 199
0010 200
0010 201 3$: SSB #IFBSV_CREATE,(R9) ; remember we're doing create
0014 202 BISB3 #FABSM_PUT,FAB$B_FAC(R8),-
0018 203 IFBSB_FAC(R9) ; imply put access
001A 204 ASSUME FAB$V_BRO EQ FAB$V_BIO+1
001A 205 CMPZV #FAB$V_BIO,#2,IFBSB_FAC(R9),-
001F 206 #3 ; both bro & bio set?
0020 207 BNEQ 5$ ; branch if not
0022 208 BICB2 #FAB$M_BIO,IFBSB_FAC(R9) ; clear bio (implied
0026 209 ; by bro without restrictions)
0026 210 5$:
0026 211
0026 212 ;
0026 213 ; validate rfm
0026 214 ;
0026 215
0026 216 ASSUME IFBSV_RFM EQ 0
0026 217 ASSUME IFBS$RFM EQ 4
0026 218 MOVB FAB$B_RFM(R8),-
0029 219 IFBSB_RFMORG(R9) ; save rfm in rfmorg
002B 220
002B 221 ;
002B 222 ; check for rfm in supported range
002B 223 ;
002B 224
002B 225 BBS #IFBSV_BIO,-
002D 226 IFBSB_FAC(R9),10$ ; don't check for bio
0030 227 CMPB FAB$B_RFM(R8),#FAB$C_MAXRFM
0034 228 BLEQU 10$
0036 229 BRW ERRRFM
0039 230
0039 231 ;
0039 232 ; set mrs, gbc, lrl, rat, and fsz from fab
0039 233 ;
0039 234
0039 235 10$: MOVW FAB$W_MRS(R8),-
003C 236 IFBSW_MRS(R9) ; save mrs
003E 237 CMPB FAB$B_RFM(R8),#FAB$C_FIX ; fixed length rfm?
0042 238 BNEQ 20$ ; branch if not
0044 239 MOVW FAB$W_MRS(R8),-
0047 240 IFBSW_LRL(R9) ; save fixed length
0049 241 BGTR 20$
004B 242 BRW ERRMRS ; branch if not > 0
004E 243 20$: MOVW FAB$W_GBC(R8),- ; store gbc
```



```
64 A9 0051 244 IFBSW_GBC(R9)
03 18 0053 245 BGEQ 21$ ; ok if non-negative
00A0 31 0055 246 BRW ERRGBC ; else it's an error
0058 247 21$:
0058 248 :
0058 249 : force stream format files to have RAT non-null.
0058 250 :
0058 251 ASSUME FAB$C_STM LT FAB$C_STMLF
0058 252 ASSUME FAB$C_STM LT FAB$C_STMCR
0058 253
1F A8 91 0058 254 CMPB FAB$B_RFM(R8),- ; stream format?
04 005B 255 #FAB$C_STM
0A 1F 005C 256 BLSSU 22$ ; nope
07 93 005E 257 BITB #<FAB$M_CR!FAB$M_FTN!FAB$M_PRN>,-
1E A8 0060 258 FAB$B_RAT(R8) ; carriage control already set?
04 12 0062 259 BNEQ 22$ ; ok
1E A8 02 88 0064 260 BISB2 #FAB$M_CR,FAB$B_RAT(R8) ; force RAT=CR
1E A8 90 0068 261 22$: MOVB FAB$B_RAT(R8),-
51 A9 006B 262 IFBSB_RAT(R9) ; save rat
006D 263
006D 264 :
006D 265 : check that only one of 'prn', 'cr' and 'ftn' rat bits are on
006D 266 :
006D 267 :
51 1E A8 51 D4 006D 268 CLRL R1 ; zero-extend the field
06 51 8F 8B 006F 269 BICB3 #255\<FAB$M_CR!FAB$M_FTN!FAB$M_PRN>,FAB$B_RAT(R8),R1
03 1F A8 02 E1 0075 270 BBC #FAB$V_PRN,R1,23$ ; branch if not prn
03 1F A8 91 0079 271 CMPB FAB$B_RFM(R8),#FAB$C_VFC ; rfm = vfc?
69 12 007D 272 BNEQ ERRRAT ; branch if not
007F 273 ASSUME FAB$V_FTN EQ 0
007F 274 ASSUME FAB$V_CR EQ FAB$V_FTN+1
007F 275 ASSUME FAB$V_PRN EQ FAB$V_CR+1
64 17'8F 51 E1 007F 276 23$: BBC R1,1^#B00010111,ERRRAT ; branch if yes
0084 277 :
0084 278 : if vfc record format, check for 0 fixed header size and if
0084 279 : found make it 2 bytes
0084 280 :
0084 281 :
0084 282 :
03 1F A8 91 0084 283 CMPB FAB$B_RFM(R8),#FAB$C_VFC
16 12 0088 284 BNEQ 30$ ; omit check if not vfc
3F A8 90 008A 285 MOVB FAB$B_FSZ(R8),-
5F A9 008D 286 IFBSB_FSZ(R9) ; save fsz value
04 12 008F 287 BNEQ 29$ ; branch if value specified
5F A9 02 90 0091 288 MOVB #2,IFBSB_FSZ(R9) ; else set default value
02 06 51 A9 0095 289 29$: BBC #FAB$V_PRN,-
02 5F A9 91 0097 290 IFBSB_RAT(R9),30$ ; branch if not prn
50 1F 009A 291 CMPB IFBSB_FSZ(R9),#2 ; fsz > 1?
009E 292 BLSSU ERRFSZ ; branch if not
00A0 293 30$:
FF5D' 30 00A0 294 BSBW RMSPRFLNMALT ; process file name
65 50 E9 00A3 295 BLBC R0,EXIT ; exit on error
6A 18 E0 00A6 296 BBS #FWASV_WILDCARD,(R10),-
56 00A9 297 ERRSYN ; no wildcards allowed
6A 38 E1 00AA 298 CIF: BBC #FWASV_SLPRESENT,(R10),- ; no problem if no searchlist
04 00AD 299 SETORG
68 39 E0 00AE 300 BBS #FAB$V_CIF+FOP,(R8),- ; special loop if CIF
```

```

62      00B1 301      DOCIF
        00B2 302      ;
        00B2 303      ; dispatch to organization-dependent create code
        00B2 304      ;
        00B2 305      ;
50 04 04 EF 00B2 306 SETORG: EXTZV #FAB$V_ORG,#FAB$$_ORG,-
23 A9 1D A8 00B5 307 FAB$B_ORG(R8),R0 ; get organization code
25 6A 50 90 00B8 308 RO,IFB$B_ORGCASE(R9) ; and save for dispatching
08 69 19 E0 00BC 309 #FWA$V_NODE,(R10),20$ ; branch if network operation
34 69 05 E1 00C0 310 #DEV$V_SQD,IFB$SL_PRIM_DEV(R9),10$ ; branch if not magtape
30 69 13 E1 00C4 311 #DEV$V_MNT,IFB$SL_PRIM_DEV(R9),ERRDNR ; error, if magtape not mounted
        00C8 312 #DEV$V_DMT,IFB$SL_PRIM_DEV(R9),ERRDNR ; error, if magtape marked for
        00CC 313 10$: CASE TYPE=B,SRC=R0,-
        00CC 314 DISPLIST=<RMS$CREATE1,C2_BR,RMS$CREATE3>
        00D6 315 ; pick up correct routine
        00D6 316 ;
        00D6 317 ;
        00D6 318 ; error returns
        00D6 319 ;
        00D6 320 ;
60 8F 93 00DB 321 RMSERR ORG ; org not supported
22 A9 00DE 322 BITB #FAB$M_BIO!FAB$M_BRO,-
29 13 00E0 323 IFB$B_FAC(R9) ; either bio or bro set?
FF 1B' 31 00E2 324 BEQL EXIT ; branch if not (error)
0050 31 00E5 325 BRW RMS$BIO_CREATE ; go do block i/o create
        00E8 326 ;
        00E8 327 20$: BRW NTCRE ; helper branch
        00E8 328 ;
1E 10 00E8 329 ERRRAT: BSBB ERROR
        00EA 330 RMSERR_WORD RAT ; both 'cr' and 'ftn' bits on
        00EC 331 ;
        00EC 332 ;
1A 10 00EC 333 ERRRFM: BSBB ERROR
        00EE 334 RMSERR_WORD RFM ; bad rfm field
        00F0 335 ;
        00F0 336 ;
16 10 00F0 337 ERRFSZ: BSBB ERROR
        00F2 338 RMSERR_WORD FSZ ; fsz doesn't specify 'put'
        00F4 339 ;
        00F4 340 ;
12 10 00F4 341 ERRMRS: BSBB ERROR
        00F6 342 RMSERR_WORD MRS ; mrs zero for fixed length rfm
        00F8 343 ;
        00F8 344 ;
OE 10 00F8 345 ERRGBC: BSBB ERROR
        00FA 346 RMSERR_WORD GBC ; GBC must be non-negative
        00FC 347 ;
        00FC 348 ;
OA 10 00FC 349 ERRDNR: BSBB ERROR
        00FE 350 RMSERR_WORD DNR ; device not mounted
        0100 351 ;
68 3D E0 0100 352 ERRSYN: BBS #FAB$V_OFP+FOP,(R8),-
A6 0103 353 CIF ; wild card o.k. if ofp set
02 10 0104 354 BSBB ERROR
        0106 355 RMSERR_WORD SYN ; wild card seen
        0108 356
        0108 357
```



```

50 9E 3C 0108 358
FEF2' 31 0108 359 ERROR: MOVZWL a(SP)+,R0 ; pick up in-line error code
00000000'EF 17 010B 360 ;
010E 361 EXIT: BRW RMSCLSCU ; clean up and return to user
0114 362
0114 363 C2_BR: JMP RM$CREATE2
0114 364
0114 365 ;++
0114 366 ; Process searchlists for a create-if operation.
0114 367 ; The method is to loop thru the entire searchlist trying to access
0114 368 ; the file, if we find one anywhere, we proceed to RM$OPEN_CIF to finish
0114 369 ; the normal $OPEN. If no file is ever found, then we discard the
0114 370 ; exhausted FWA, re-parse the filespec from scratch and proceed to do
0114 371 ; an ACP create-if operation on the first element of the list.
0114 372 ;--
0114 373
FEE9' 30 0114 374 DOCIF: BSBW RM$SETDID ; set up directory
06 50 E9 0117 375 BLBC R0,10$ ; this element failed
FEE3' 30 011A 376 BSBW RM$ACCESS ; try to access the file
15 50 E8 011D 377 BLBS R0,20$ ; found it, continue with OPEN
FEDD' 30 0120 378 10$: BSBW RM$CHK_SLIST1 ; get next element in list
EE 50 E8 0123 379 BLBS R0,DOCIF ; and try it
E2 51 E9 0126 380 BLBC R1,EXIT ; don't continue either
FED4' 30 0129 381 BSBW RM$DEALLOCATE_FWA ; release exhausted searchlist
FED1' 30 012C 382 BSBW RM$PRFLNMALT ; get first element again
D9 50 E9 012F 383 BLBC R0,EXIT ; failed on second attempt!
FF7D 31 0132 384 BRW SETORG ; and proceed with create-if
FEC8' 31 0135 385
0135 386 20$: BRW RM$OPEN_CIF ; continue with open
0138 387
0138 388 ;++
0138 389 ; Network specific code for $CREATE.
0138 390 ;--
0138 391
FEC5' 30 0138 392 NTCRE:
04 68 26 E1 013B 393 BSBW NT$ACCESS ; Perform network access function
10 69 3F E0 0142 394 BLBC R0,60$ ; Branch on failure
06 68 39 E1 0142 395 BBC #FAB$V_SQO+FOP,(R8),10$ ; Branch if SQO not specified
FEAF' 30 0146 396 SSB #IFB$V_SQO,(R9) ; and save bit in IFAB
19 50 E8 014A 397 10$: BBS #IFB$V_NSP,(R9),30$ ; Branch if task-to-task
FEAF' 30 014E 398 BBC #FAB$V_CIF+FOP,(R8),20$ ; Branch if CIF not specified
19 50 E8 0151 399 BSBW NT$OPEN ; Try to open file via remote FAL
0154 400 BLBS R0,50$ ; Branch on successful open
0154 401 ; Note that we could check for errors
0154 402 ; such as RMSS_DNF, DNR, PRV, WLK, etc.
0154 403 ; to avoid getting same error on create
FEA9' 30 0154 404 20$: BSBW NT$CREATE ; Create file via remote FAL
10 50 E9 0157 405 BLBC R0,40$ ; Branch on failure
01 01 BB 015A 406 30$: PUSHF #^M<R0> ; Save possible alternate success code
FEA1' 30 015C 407 BSBW RM$FILLNAM ; Fill in NAM block with resultant name
01 01 BA 015F 408 POPR #^M<R0> ; Restore status code
05 68 39 E1 0161 409 BBC #FAB$V_CIF+FOP,(R8),40$ ; Branch if CIF not specified
FE93' 31 0165 410 RMSERR CREATED ; Return alternate success code
FE90' 31 016A 411 40$: BRW RM$CREATEEXIT ; Join common create code
016D 412 50$: BRW RM$OPEN_CIF ; Join common open code
0170 413 ; (which will call RM$FILLNAM)
0170 414 60$: RMSERR CRE,R1 ; Establish default error code
```

RMSOCREAT
V04-000

DISPATCH FOR CREATE OPERATION
RMS\$CREATE - \$CREATE ROUTINE

N 8

16-SEP-1984 01:13:26 VAX/VMS Macro V04-00
5-SEP-1984 16:24:43 [RMS.SRC]RMSOCREAT.MAR;1

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(4)

FE88' 30 0175 415
FE85' 31 0178 416
017B 417
017B 418

BSBW
BRW
.END

RM\$MAPERR
RM\$CREATEEXIT

: Try to map SS code to RMS code
: join common create code

RMSOCREAT
Symbol table

DISPATCH FOR CREATE OPERATION

B 9

16-SEP-1984 01:13:26 VAX/VMS Macro V04-00
5-SEP-1984 16:24:43 [RMS.SRC]RMSOCREAT.MAR;1

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(4)

\$\$PSECT EP	= 00000000	IFBSB_RAT	= 00000051
\$\$RMSTEST	= 0000001A	IFBSB_RFMORG	= 00000050
\$\$RMS_PBUGCHK	= 00000010	IFBSL_PRIM_DEV	= 00000000
\$\$RMS_TBUGCHK	= 00000008	IFBSB_RFM	= 00000004
\$\$RMS_UMODE	= 00000004	IFBSV_BIO	= 00000005
C2_BR	0000010E R 01	IFBSV_CREATE	= 00000032
CIF	000000AA R 01	IFBSV_NSP	= 0000003F
DEVSV_DMT	= 00000015	IFBSV_RESTART	= 0000003B
DEVSV_MNT	= 00000013	IFBSV_RFM	= 00000000
DEVSV_SQD	= 00000005	IFBSV_SQO	= 0000002D
DOCIF	00000114 R 01	IFBSW_GBC	= 00000064
ERRDNR	000000FC R 01	IFBSW_LRL	= 00000052
ERRFSZ	000000F0 R 01	IFBSW_MRS	= 00000060
ERRGBC	000000F8 R 01	NT\$ACCESS	***** X 01
ERRMRS	000000F4 R 01	NT\$CREATE	***** X 01
ERROR	00000108 R 01	NT\$OPEN	***** X 01
ERRRAT	000000E8 R 01	NTCRE	00000138 R 01
ERRRFM	000000EC R 01	PIOSA_TRACE	***** X 01
ERRSYN	00000100 R 01	RMS\$ACCESS	***** X 01
EXIT	0000010B R 01	RMSBIO_CREATE	***** X 01
FAB\$B_FAC	= 00000016	RMSCHK_SLIST1	***** X 01
FAB\$B_FSZ	= 0000003F	RMSCLSCU	***** X 01
FAB\$B_ORG	= 0000001D	RMS\$CREATE1	***** X 01
FAB\$B_RAT	= 0000001E	RMS\$CREATE2	***** X 01
FAB\$B_RFM	= 0000001F	RMS\$CREATE3	***** X 01
FAB\$C_FIX	= 00000001	RMS\$CREATEEXIT	***** X 01
FAB\$C_MAXRFM	= 00000006	RMS\$DEALLOCATE_FWA	***** X 01
FAB\$C_STM	= 00000004	RMS\$FILLNAM	***** X 01
FAB\$C_STMCR	= 00000006	RMS\$FSETI	***** X 01
FAB\$C_STMLF	= 00000005	RMS\$MAPERR	***** X 01
FAB\$C_VFC	= 00000003	RMS\$OPEN_ALT	***** X 01
FAB\$L_FOP	= 00000004	RMS\$OPEN_CIF	***** X 01
FAB\$M_BIO	= 00000020	RMS\$PRFLNMALT	***** X 01
FAB\$M_BRO	= 00000040	RMS\$SETDID	***** X 01
FAB\$M_CR	= 00000002	RMS\$CREATE	= FFFFFFFE RG 01
FAB\$M_FTN	= 00000001	RMS\$_CRE	= 0001C00A
FAB\$M_PRN	= 00000004	RMS\$_CREATED	= 00010619
FAB\$M_PUT	= 00000001	RMS\$_DNR	= 00018272
FAB\$S_ORG	= 00000004	RMS\$_FSZ	= 00018534
FAB\$V_BIO	= 00000005	RMS\$_GBC	= 000187CC
FAB\$V_BRO	= 00000006	RMS\$_MRS	= 000185D4
FAB\$V_CIF	= 00000019	RMS\$_ORG	= 0001860C
FAB\$V_CR	= 00000001	RMS\$_RAT	= 0001864C
FAB\$V_FTN	= 00000000	RMS\$_RFM	= 00018664
FAB\$V_OFP	= 0000001D	RMS\$_SYN	= 000186D4
FAB\$V_ORG	= 00000004	SETORG	000000B2 R 01
FAB\$V_PRN	= 00000002	TPT\$SL_CREATE	***** X 01
FAB\$V_SQO	= 00000006		
FAB\$W_GBC	= 00000048		
FAB\$W_MRS	= 00000036		
FOP	= 00000020		
FWASV_NODE	= 00000019		
FWASV_SLPRESENT	= 00000038		
FWASV_WILDCARD	= 00000018		
IFBSB_FAC	= 00000022		
IFBSB_FSZ	= 0000005F		
IFBSB_ORGCASE	= 00000023		

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

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR
RM\$RMS	0000017B (379.)	01 (1.)	PIC USR
\$AB\$\$	00000000 (0.)	02 (2.)	NOPIC USR

CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
CON	REL	GBL	NOSHR	EXE	RD	NOWRT	NOVEC	BYTE
CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.10	00:00:00.54
Command processing	110	00:00:00.64	00:00:06.15
Pass 1	326	00:00:10.79	00:00:30.20
Symbol table sort	0	00:00:01.54	00:00:02.41
Pass 2	87	00:00:02.09	00:00:04.44
Symbol table output	13	00:00:00.10	00:00:00.17
Psect synopsis output	1	00:00:00.05	00:00:00.25
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	570	00:00:15.31	00:00:44.16

The working set limit was 1500 pages.
60563 bytes (119 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 1186 non-local and 23 local symbols.
418 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	1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	18

1294 GETs were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS\$:RMSOCREAT/OBJ=OBJ\$:RMSOCREAT MSRC\$:RMSOCREAT/UPDATE=(ENH\$:RMSOCREAT)+EXECML\$/LIB+LIB\$:RMS/LIB

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