



```

PPPPPPPP      AAAAAA      RRRRRRRR      SSSSSSSS      EEEEEEEEEE      RRRRRRRR
PPPPPPPP      AAAAAA      RRRRRRRR      SSSSSSSS      EEEEEEEEEE      RRRRRRRR
PP      PP      AA      AA      RR      RR      SS      EE      RR      RR
PP      PP      AA      AA      RR      RR      SS      EE      RR      RR
PP      PP      AA      AA      RR      RR      SS      EE      RR      RR
PP      PP      AA      AA      RR      RR      SS      EE      RR      RR
PPPPPPPP      AA      AA      RRRRRRRR      SSSSSS      EEEEEEEE      RRRRRRRR
PPPPPPPP      AA      AA      RRRRRRRR      SSSSSS      EEEEEEEE      RRRRRRRR
PP      AAAAAAAAAA      RR      RR      SS      EE      RR      RR
PP      AAAAAAAAAA      RR      RR      SS      EE      RR      RR
PP      AA      AA      RR      RR      SS      EE      RR      RR
PP      AA      AA      RR      RR      SS      EE      RR      RR
PP      AA      AA      RR      RR      SSSSSSSS      EEEEEEEEEE      RR      RR
PP      AA      AA      RR      RR      SSSSSSSS      EEEEEEEEEE      RR      RR

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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
LLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLL      IIIIII      SSSSSSSS

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(2)	55
(3)	84
(4)	282

DECLARATIONS
MAC\$PARSE PARSE VAX-11 MACRO PROGRAM
MAC\$TOKEN GET NEXT LEXICAL TOKEN

```

0000 1      .TITLE  MAC$PARSER PARSER FOR VAX-11 MACRO
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 17     :*
0000 18     :*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19     :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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0000 22     :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
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:      VAX MACRO ASSEMBLER OBJECT LIBRARY
0000 31     :
0000 32     : ABSTRACT:
0000 33     :
0000 34     : The VAX-11 MACRO assembler translates MACRO-32 source code into object
0000 35     : modules for input to the VAX-11 LINKER.
0000 36     :
0000 37     : ENVIRONMENT:  USER MODE
0000 38     :
0000 39     : AUTHOR: Benn Schreiber, CREATION DATE: 28-AUG-78
0000 40     :
0000 41     : MODIFIED BY:
0000 42     :
0000 43     :      V02.06  HJ0001      Herb Jacobs      14-Aug-1980
0000 44     :      Performance improvement to parse driver loop.
0000 45     :
0000 46     :      V01.05  RN0023      R. Newland      3-Nov-1979
0000 47     :      New message codes to get error messages from system
0000 48     :      message file.
0000 49     :
0000 50     :      V01.04  RN0005      R. Newland      27-Aug-1979
0000 51     :      Remove .ALIGN LONG statements and change L^ to W^.
0000 52     :
0000 53     :--

```

```
0000 55 .SBTTL DECLARATIONS
0000 56 :
0000 57 : INCLUDE FILES:
0000 58 :
0000 59 :
0000 60 :
0000 61 : MACROS:
0000 62 :
0000 63 :
0000 64 $MAC_GENVALDEF ;DEFINE COMMON SYMBOLS
0000 65 $MAC_CTLFLGDEF ;DEFINE BIT FLAGS
0000 66 $MAC_INTCODEF ;DEFINE INT. FILE ACTIONS
0000 67 $MACMSGDEF ; Define message codes
0000 68 :
0000 69 :
0000 70 : EQUATED SYMBOLS:
0000 71 :
0000 72 :
FFFFFDD 0000 73 ELSE_CODE = -3 ;ELSE CODE
FFFFFDC 0000 74 CONT_CODE = -4 ;CONTINUE CODE
0000270E 0000 75 SCAN_CODE = 9998. ;SCAN CODE
0000270F 0000 76 ERR_CODE = 9999. ;ERROR CODE
00000009 0000 77 ERR_MAX = 9. ;MAX ERROR CODE
0000 78 :
0000 79 :
0000 80 : OWN STORAGE:
0000 81 :
0000 82 :
```

```
0000 84 .SBTTL MAC$PARSE PARSE VAX-11 MACRO PROGRAM
0000 85
0000 86 : **
0000 87 : FUNCTIONAL DESCRIPTION:
0000 88 : THE PARSE ROUTINE PERFORMS THE FOLLOWING ACTIONS:
0000 89 :
0000 90 : 1) INITIALIZE VARIABLES
0000 91 :
0000 92 : 2) MAKE AN INITIAL CALL TO 'MAC$GETCHR' TO GET THE FIRST
0000 93 : CHARACTER (AND FIRST DATA RECORD)
0000 94 :
0000 95 : 3) MAKE AN INITIAL CALL TO 'MAC$TOKEN' TO DETERMINE THE
0000 96 : FIRST LEXICAL ITEM, AND TO CLASSIFY IT INTO ONE OF
0000 97 : THE LEXICAL CLASS.
0000 98 :
0000 99 : 4) IT THEN DETERMINES THE NEXT TRANSITION STATE BY USING
0000 100 : THE CURRENT STATE AS <J> THE INDEX INTO THE STATE TABLE
0000 101 : OF TRANSITIONS.
0000 102 :
0000 103 : 5) THE JTH TRANSITION STATE IS THEN COMPARED TO THE CLASS
0000 104 : OF THE TOKEN. IF IT IS EQUAL TO THE <CLASS> OR IT IS
0000 105 : EQUAL TO THE <ELSE_CODE> THEN A 'MATCH' IS PERFORMED
0000 106 : AND THE SEQUENCE STARTS BACK AT 4).
0000 107 :
0000 108 : 6) IF THE <TRANSITION> DID NOT MATCH EITHER THE <ELSE_CODE>
0000 109 : OR THE <CLASS> THEN IF THE <TRANSITION> EQUALS THE
0000 110 : <CONT_CODE> THEN <J>, THE INDEX INTO THE <TRANSITION>
0000 111 : TABLE IS CHANGED TO BE THE JTH ITEM IN THE <ACTION>
0000 112 : TABLE. IF IT DOES NOT EQUAL THE CONTINUE CODE <J> IS
0000 113 : SIMPLY INCREMENTED BY 1.
0000 114 :
0000 115 : 7) ACTION NOW CONTINUES AT 5).
0000 116 :
0000 117 :
0000 118 : CALLING SEQUENCE:
0000 119 :
0000 120 : JSB MAC$PARSE
0000 121 :
0000 122 :
0000 123 : INPUT PARAMETERS:
0000 124 :
0000 125 : NONE
0000 126 :
0000 127 : IMPLICIT INPUTS:
0000 128 :
0000 129 : NONE
0000 130 :
0000 131 : OUTPUT PARAMETERS:
0000 132 :
0000 133 : NONE
0000 134 :
0000 135 : IMPLICIT OUTPUTS:
0000 136 :
0000 137 : NONE
0000 138 :
0000 139 : COMPLETION CODES:
0000 140 :
```

```

0000 141 : NONE
0000 142 :
0000 143 : SIDE EFFECTS:
0000 144 :
0000 145 : NONE
0000 146 :
0000 147 : REGISTER USAGE:
0000 148 :
0000 149 : R11 POINTER TO 'MAC$GL_FLAGS'
0000 150 : R10 CURRENT CHARACTER
0000 151 : R9 FRAME BUFFER POINTER
0000 152 : R8 TOKEN RETURNED FROM MAC$TOKEN AND SEMANTIC ROUTINES
0000 153 : R7 EXPRESSION STACK POINTER (0-100)
0000 154 : -----
0000 155 : REGISTERS R11-R7 MUST NOT BE ALTERED BY SEMANTIC ROUTINES.
0000 156 : REGISTERS R6-R0 ARE AVAILABLE FOR SEMANTIC ROUTINES TO USE
0000 157 : WITHOUT SAVING (SEE LRPTAB FOR A LIST OF SEMANTIC ROUTINES).
0000 158 : IN ADDITION, ANY ROUTINES CALLED BY 'MAC$TOKEN' MAY ALTER
0000 159 : REGISTERS R0-R6.
0000 160 : -----
0000 161 : R6 TOKEN IN PASS 1
0000 162 : R5 POINTER INTO PARSE TABLES
0000 163 : R4 CURRENT PARSE STATE
0000 164 : R3 ACTION
0000 165 : R2-R0 SCRATCH
0000 166 :
0000 167 : --
0000 168 :
0000 169 :
0000 170 :
00000000 171 : .PSECT MAC$RO_CODE_P1,NOWRT,GBL, LONG
0000 172 :
0000 173 : MAC$PARSE::
00 6B 01 E3 0000 174 : BBS #FLGSV_BOL,(R11),.+1 ;FLAG BEGINNING OF LINE
00 6B 0F E3 0004 175 : BBS #FLGSV_SKAN,(R11),.+1 ;FLAG SCANNING PERMITTED
00 6B 0D E5 0008 176 : BBCC #FLGSV_OPRND,(R11),.+1 ;NOT IN OPERAND FIELD
00 6B 20 E5 000C 177 : BBCC #FLGSV_CRSEEN,(R11),.+1 ;FLAG CR NOT SEEN YET FOR TOKEN
5A 0D 9A 0010 178 : MOVZBL #CR,R10 ;FORCE READING OF NEW LINE
FFEA' 30 0013 179 : BSBW MAC$GETCHR ;GET FIRST CHARACTER
57 D4 0016 180 : CLRL R7 ;INIT PARSE STACK POINTER
010F 30 0018 181 : BSBW MAC$TOKEN ;GET FIRST TOKEN TYPE
54 D4 001B 182 : CLRL R4 ;CLEAR CURRENT STATE
56 58 D0 001D 183 : MOVL R8,R6 ;SET CURRENT TOKEN CLASS
0020 184 : .ENABL LSB
0020 185 :
0020 186 : ; THIS CODE IS DEPENDENT ON THE SIZE OF THE ENTRIES IN THE SYMLST TABLE!
0020 187 :
0020 188 : PARSE_LOOP:
52 55 54 D0 0020 189 10$: MOVL R4,R5 ;COPY CURRENT STATE
00000000'EF45 9E 0023 190 15$: MOVAB L^PAT$AB_SYMLST[R5],R2 ;GET ADDRESS OF STATE TABLE OFFSET
56 B5 002B 191 : TSTW R6 ;ERROR PROCESSING TOKEN CLASS?
0D 12 002D 192 : BNEQ 20$ ;IF NE NO
62 09 91 002F 193 18$: CMPB #ERR_MAX,(R2) ;TOKEN CLASS ERROR?
2B 1E 0032 194 : BGEQU 40$ ;IF GTRU YES
82 FC 8F 91 0034 195 : CMPB #CONT_CODE,(R2)+ ;TOKEN CLASS EQUAL ELSE OR CONTINUE?
F5 1A 0038 196 : BGTRU 18$ ;BRANCH IF NEITHER TO STILL SEARCH
0B 11 003A 197 : BRB 25$ ;PROCESS ELSE OR CONTINUE

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56 62 91 003C 198
      1E 13 003F 199 20$: CMPB (R2),R6 ;STATE EQUAL TO TOKEN CLASS?
82 FC 8F 91 0041 200 BEQL 40$ ;IF EQ YES
      FS 1A 0045 201 CMPB #CONT_CODE,(R2)+ ;TOKEN CLASS EQUAL ELSE OR CONTINUE?
      14 12 0047 202 BGTRU 20$ ;BRANCH IF NEITHER TO STILL SEARCH
53 00000001'EF 9E 0049 203 25$: BNEQ 41$ ;BRANCH IF ELSE
      52 53 C2 0050 204 MOVAB L^PAT$AB_SYMLST+1,R3 ;GET ADDR OF START OF TABLE (FIX R2+1)
      55 00000000'EF42 32 0053 205 SUBL R3,R2 ;FORM OFFSET INTO TABLE
      C6 11 005B 206 CVTWL L^PAT$AW_ACTION[R2],R5 ;GET CONTINUE LOCATION
      005D 207 BRB 15$
      005D 208 ;
      005D 209 ; PERFORM MATCH
      005D 210 ;
      005D 211 ; THIS CODE IS DEPENDENT ON THE SIZE OF THE ENTRIES IN THE SYMLST TABLE!
      005D 212 ;
53 00000000'EF 52 D7 005D 213 41$: DECL R2 ;ADJUST R2, WE WENT 1 TO FAR
      52 53 9E 005F 214 40$: MOVAB L^PAT$AB_SYMLST,R3 ;GET ADDRESS OF START OF TABLE
53 00000000'EF42 32 0066 215 SUBL R3,R2 ;FORM OFFSET INTO TABLE
      53 270F 8F B1 0069 216 CVTWL L^PAT$AW_ACTION[R2],R3 ;GET ACTION TO PERFORM
      10 12 0071 217 CMPW #ERR_CODE,R3 ;ERROR DETECTED?
      56 B5 0076 218 BNEQ 60$ ;IF NEQ NO
      08 12 0078 219 TSTW R6 ;BACKTRACKING ERROR?
      57 D7 007A 220 BNEQ 50$ ;IF NEQ NO
54 0000'CF47 D0 007C 221 DECL R7 ;YES--BACK UP PARSE STACK POINTER
      56 D4 007E 222 MOVL W^MAC$AL_PSTACK[R7],R4 ;Back up to previous state
      98 11 0084 223 50$: CLRL R6 ;START BACKTRACKING IF NOT ALREADY
53 D8F2 8F B1 0086 224 BRB 10$ ;
      0E 18 0088 225 60$: CMPW #-SCAN_CODE,R3 ;LOOK AHEAD (NO SCAN)?
0000'CF47 0000'CF D0 008D 226 BGEQ 70$ ;IF GEQ YES
      53 54 D0 008F 227 MOVL R4,W^MAC$AL_PSTACK[R7] ;No--save current state
0000'CF47 0000'CF D0 0095 228 MOVL W^MAC$GL_VALUE,W^MAC$AL_VALSTACK[R7] ;
      53 B5 009D 229 70$: TSTW R3 ;TIME TO READ NEXT TOKEN?
      29 19 009F 230 BLSS 90$ ;IF LSS NO
      00A1 231 ;
      00A1 232 ; READ NEXT TOKEN
      00A1 233 ;
54 53 D0 00A1 234 MOVL R3,R4 ;SET CURRENT STATE TO ACTION
      OF 6B OF D6 00A4 235 INCL R7 ;ADVANCE STACK POINTER
      0000'CF D0 00A6 236 BBSS #FLG$V_SKAN,(R11),80$ ;BR IF OK TO SCAN FOR NEXT TOKEN
      0000'CF D0 00AA 237 ; AND SET SCAN OK FLAG
      0000'CF D0 00AA 238 MOVL W^MAC$GL_VNEXT,- ;RESET CONTEXT,
      56 0000'CF D0 00AE 239 W^MAC$GL_VALUE ; symbol already scanned
      FF67 31 00B1 240 MOVL W^MAC$GL_NEXT,R6 ; during a look-ahead
      0070 8F BB 00B6 241 BRW 10$ ;CONTINUE SCANNING
      006A 30 00B9 242 80$: PUSHR #^M<R4,R5,R6> ;SAVE REGISTERS
      0070 8F BA 00BD 243 BSBW MAC$TOKEN ;GET NEXT TOKEN
      56 58 D0 00C0 244 POPR #^M<R4,R5,R6> ;RESTORE REGISTERS
      FF56 31 00C4 245 MOVL R8,R6 ;SET CLASS TO TOKEN TYPE
      00CA 246 BRW 10$ ;CONTINUE SCANNING
      00CA 247 ;
      00CA 248 ; CALL SEMANTIC ROUTINE TO PERFORM REDUCTION TO NON-TERMINAL STATE
      00CA 249 ;
D8F2 8F 53 B1 00CA 250 90$: CMPW R3,#-SCAN_CODE ;NO-SCAN?
      17 14 00CF 251 BGTR 100$ ;IF GTR THEN NOT NO-SCAN
53 270E 8F A0 00D1 252 ADDW2 #SCAN_CODE,R3 ;NO-SCAN--CORRECT ACTION CODE
      57 D7 00D6 253 DECL R7 ;BACK UP STACK POINTER
0000'CF 56 D0 00D8 254 MOVL R6,W^MAC$GL_NEXT ; Save current flags

```



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0000'CF DO 00DD 255      MOVL  W^MAC$GL_VALUE,-
0000'CF      00E1 256      W^MAC$GL_VNEXT ; Save current value
00 6B 0F E5 00E4 257      BBCC  #FLGSV SKAN,(R11),100$ ;PROHIBIT SCANNING
0000'CF 0000'CF47 DO 00E8 258 100$: MOVL  W^MAC$AL_VALSTACK[R7],-
      00F0 259      W^MAC$GL_VALUE ; Get current value
      53 53 CE 00F0 260      MNEGL R3,R3 ;GET ACTION ROUTINE NUMBER
52 00000000'EF43 DO 00F3 261      MOVL  L^PAT$AL_SEM[R3],R2 ;GET ADDRESS OF SEMANTIC ROUTINE
      OA 13 00FB 262      BEQL  110$ ;IF EQL NULL ACTION
      0078 8F BB 00FD 263      PUSHR #^M<R3,R4,R5,R6> ;SAVE REGISTERS
      62 16 0101 264 MAC$CALL SEM::
      0078 8F BA 0103 265      JSB  (R2) ;CALL SEMANTIC ROUTINE
52 00000000'E3 9A 0107 266 110$: POPR  #^M<R3,R4,R5,R6> ;RESTORE REGISTERS
      57 52 C2 010E 267      MOVZBL L^PAT$AB_POP(R3),R2 ;GET NUMBER OF ITEMS TO POP
54 0000'CF47 DO 0111 268      SUBL2 R2,R7 ;"POP" THE STACK
      0000'CF DO 0117 269      MOVL  W^MAC$AL_PSTACK[R7],R4 ; Get current state
      0000'CF47 DO 011B 270      MOVL  W^MAC$GL_VALUE,-
56 00000000'E3 9A 011F 271      W^MAC$AL_VALSTACK[R7] ; Put result on stack
      FEF7 31 0126 272      MOVZBL L^PAT$AB_LHS(R3),R6 ;PICK UP CLASS OF LEFT HAND SIDE
      0129 273      BRW  10$ ;CONTINUE SCANNING
      0129 274      :
      0129 275      : THE FOLLOWING ARE ROUTINES WHICH NEED TO BE DEFINED FOR THE
      0129 276      : GRAMMAR. IT IS A NO-OP SEMANTIC ROUTINE.
      0129 277      :
      0129 278 GOAL::
05 0129 279      RSB
      012A 280      .DSABL LSB

```

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012A 282 .SBTTL MACSTOKEN GET NEXT LEXICAL TOKEN
012A 283
012A 284 :++
012A 285 : THE NEXT LEXICAL TOKEN TYPE IS RETURNED IN R8. THE VALUE
012A 286 : ASSOCIATED WITH THE TOKEN IS RETURNED IN MAC$GL_VALUE.
012A 287 :--
012A 288
012A 289 MACSTOKEN::
012A 290 MOVL W^MAC$GL_ERRPTX,-
012E 291 W^MAC$GL_ERRPT ;POINT TO PREVIOUS TOKEN
0131 292 MOVL W^MAC$GL_LINEPT,-
0135 293 W^MAC$GL_ERRPTX ;POINT TO THIS TOKEN
0138 294 CLRQ W^MAC$GL_VALUE ;DEFAULT VALUE IS 0
013C 295 10$: BSBW MAC$SKIPSP ;SKIP SPACES
013F 296 BBS #CHRSV_ILL_CHR,- ;BRANCH IF ILLEGAL CHR.
0141 297 W^MAC$AB(CMSK_TAB(R10),40$
0145 298 MAC$AL_CHRTAB[R10],R8 ;NO--GET TOKEN FOR CHARACTER
014D 299 BBCC #31.,R8,30$ ;BR IF NOT A TOKEN
0151 300 CMPB R10,#CR ;IS CHARACTER A CARRIAGE RETURN?
0154 301 BNEQ 20$ ;IF NEQ NO--GET NEXT CHARACTER
0156 302 BBSC #FLGSV_CRSEEN,(R11),20$ ;YES--HAVE WE SEEN IT BEFORE?
015A 303 ; (AND CLEAR FLAG)
015A 304 BBSC #FLGSV_CRSEEN,(R11),.+1 ;NO--SET FLAG FOR LATER
015E 305 RSB ;RETURN WITH CR TOKEN
015F 306 20$: BRW W^MAC$GETCHR ;GET NEXT CHARACTER
0162 307 ;AND RETURN TO CALLER
0162 308 :
0162 309 : CHARACTER IS NOT A TOKEN--CALL SCANNING ROUTINE
0162 310 :
0162 311 30$: JMP (R8) ;DISPATCH TO SCANNING ROUTINE
0164 312 :
0164 313 : CHARACTER IS ILLEGAL
0164 314 :
0164 315 40$:
0164 316 MAC$CHRERR:: ;ENTRY FROM MAC$XUPARROW
0164 317 ; (MAC$XUPARROW IS JMP'ED TO
0164 318 ; FROM MAC$TOKEN)
0164 319 $MAC_ERR_ILLCHR ; Get message code
0169 320 BSSB- MAC$ERRORLN ;REPORT CHARACTER ERROR
016B 321 BSBW MAC$GETCHR ;GET NEXT CHARACTER
016E 322 BRB MAC$TOKEN ;GET NEXT TOKEN
0170 323
0170 324 :++
0170 325 : ERROR ROUTINES
0170 326 : ENTER WITH R0 CONTAINING THE ERROR MESSAGE INDEX.
0170 327 :--
0170 328
0170 329 .ENABL LSB
0170 330
0170 331 MAC$ERRORPX:: ;ERROR USING MAC$GL_
0170 332 PUSHL W^MAC$GL_ERRPTX ;STACK POINTER
0174 333 BRB 10$
0176 334
0176 335 MAC$ERRORPT:: ;ERROR USING MAC$GL_ERRPT
0176 336 PUSHL W^MAC$GL_ERRPT ;STACK POINTER
017A 337 BRB 10$
017C 338

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```
0000'CF DD 017C 339 MAC$ERRORLN:: ;ERROR USING MAC$GL_LINEPT
00 6B 07 E5 017C 340 PUSHL W*MAC$GL_LINEPT ;STACK POINTER
50 50 DD 0180 341 10$: BBCC #FLGSV_EXPOPT,(R11),..+1 ;DO NOT ALLOW EXPRESSION OPT.
50 12 9A 0184 342 PUSHL RO ;STACK ERROR MESSAGE INDEX
FE74' 30 0186 343 MOVZBL #INT$ ERR,RO ;SET INT. CODE FOR ERROR
0189 344 BSBW MAC$INTOUT_2_LW ;OUTPUT TO INT. FILE
018C 345 ;(NOTE: MUST BE BSBW/RSB; SEE
018C 346 ; INTOUT.MAR)
05 018C 347 RSB ;ALL DONE
018D 348 .DSABL LSB
018D 349
018D 350
018D 351 .END
```







The image displays a grid of 100 small terminal window screenshots, arranged in a 10x10 pattern. Each window contains text-based data, likely representing various system components or processes. Several windows are clearly labeled with text, including:

- MAIL
- MAIL MAP
- P2DRUR LIS
- PARSER LIS
- RPTIRP LIS
- SCANNER LIS
- TIMER LIS
- MAILCMLS CLD
- SYMTAB LIS
- P2ACT2 LIS

The text within the windows is mostly illegible due to the small size and low resolution of the image. The overall appearance is that of a dense array of system status or diagnostic displays.