

VAX

fig-FORTH ASSEMBLY SOURCE LISTING

Ver. 1.0
October 1982

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FIG-FORTH FOR DEC VAX 11-780
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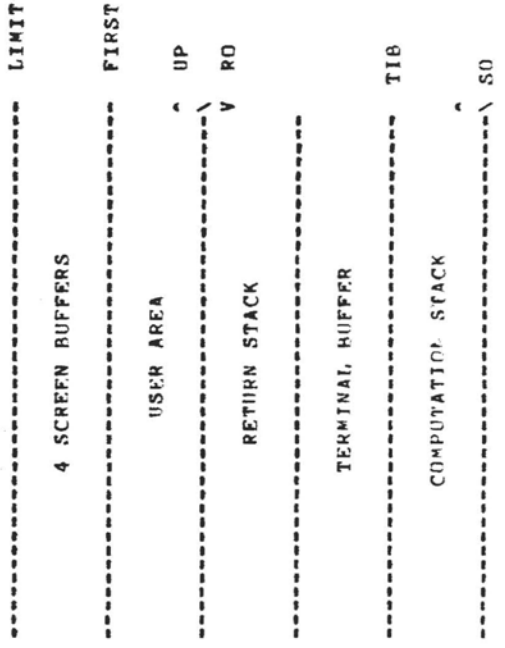
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ADAPTED FROM THE 6800 FIG-FORTH LISTING ADAPTED FROM THE 1802
BY DAVE LION BY GARY R. BRADSHAW

CONVENTIONS USED IN THIS PROGRAM:

- R3-----POINTS TO BOTTOM OF USER AREA
- R4-----USED AS A TEMPORARY ACCUMULATOR
- R5-----USED AS A TEMPORARY ACCUMULATOR
- R6-----POINTS TO CURRENT INSTRUCTION
- R7-----CONTAINS FORTH W REGISTER
- R8-----POINTS TO CURRENT WORD ON RETURN STACK
- R9-----POINTS TO FIRST FREE BYTE IN DATA STACK
- R10-----USED AS A TEMPORARY POINTER
- R11-----USED AS A TEMPORARY POINTER

MEMORY MAP



```

0000 58 ?
0000 59 ?
0000 60 ?
0000 61 ?
0000 62 ?
0000 63 ?
0000 64 ?
0000 65 ?
0000 66 ?
0000 67 ?
0000 68 ?
0000 69 ?
0000 70 ?
0000 71 ?
0000 72 ?
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0000 75 ?
0000 76 ?
0000 77 ?
0000 78 ?
0000 79 ?
0000 80 ?
0000 81 ?
0000 82 ?
0000 83
00000000 84
OFF8 0000 85
01 0002 86
0002 87
0003 88
0003 89
0022 90
1R 00000AD1EF 91
0F 12 0029 92
000000A51EF 04 C2 002B 93
000000A91EF 04 C0 0032 94
0039 95
0039 96
004E 97
004E 98
0054 99
0054 100
0054 101
007B 102
007B 103
007B 104
0081 105
0000A000 106
0000R010 107
0081 108
0081 109
0091 110
0081 111
00000044 0083
00000080 0084
00000040 0085

```

```

FREE SPACE
-----
TEXT BUFFER
-----
WORD BUFFER
-----
PERMANENT DICTIONARY
-----
ROOT UP PARAMETERS
-----
I/O INITIALIZATION
-----
.TITLE VAX FIG-FORTH
.PSECT VIRTUAL_MACHINE,WRT,EXE,LONG
.ENTRY FORTH,"M<R3,R4,R5,R6,R7,R8,R9,R10,R11>

```

```

87 START: NOP
STRNLOG,S LOGNAM=TTNAME,RSLLEN=NLEN,RSLRUF=DEVDESC
CMPB NAME,#^X1B
BNFQ 10$
SUBL #4,NLEN
ADDL #4,NADDR
SASSIGN,S DEVNAM=DEVDESC,CHAN=TTCHAN
CLRW 4 CTLC
SOLO,S CHAN=TTCHAN,-
FUNC=FIOS_SETMODEIOSM_CTRLCAST,-
P1=CTRLCAST,P3=#3
JMP COLD

```

```

106 FIRSTR =^XA000
107 LITRTH =^XB010

```

```

.WORD 0
.BLKW 1
.BLKW 1

```

```

112 TEMP1:
113 CTLC:
114 SEFD:

```

```

;TRANSLATE SYS$INPUT FOR I/O USE
;CHECKS FOR PROCESS PERMANENT FILE AND
;ADJUSTS LENGTH AND ADDRESS
;ACCORDINGLY
;ASSIGN CHANNEL FOR I/O USE
;SET UP ASYNCHRONOUS INTERRUPT
;FOR ?TERMINAL- RESPONDS TO <CTL>C
;INTERRUPT SERVICE IS AT CTRLCAST
;JUST AFTER QTERM
;JUMP TO COLD ENTRY POINT
;FIRST SCREEN BUFFER STARTS HERE
;LEAVE ROOM FOR FOUR SCREENS
;EACH SCREEN IS 1024 BYTES PLUS A
;FOUR BYTE HEADER
;TEMPORARY STORAGE FOR EDIT,KEY
;FLAG USED FOR <CTL>C INTERRUPT
;SEFD FOR RANDOM NMBR GEN

```

```

4E 49 24 53 59 53 00000092'010E0000' 008A 115 TTNAME: .ASCID /SYSS$INPUT/ ;NAME FOR LOGICAL NAME TRANS
      54 55 50 0098 ;
      0000009D 009B 116 TTCHAN: .BLKW 1 ;CHANNEL FOR I/O
      0000009F 009D 117 TTIOSB: .BLKW 1 ;TTY STATUS BLOCK
      009F 118 TTIOLEN: ;
      000000A1 009F 119 .BLKW 1 ;TTY # OF BYTES TRANSFERRED
      000000A5 00A1 120 .BLKL 1 ;
      00A5 121 DEVDESC: ;
      0000003F 00A5 122 NLEN: .LONG 63 ;LOGICAL NAME LENGTH
      000000AD' 00A9 123 NADDR: .LONG NAME ;ADDRESS OF LOGICAL NAME
      000000EC 00AD 124 NAME: .BLKB 63 ;LOG NAME TRANSLATOR PUTS
      00EC 125 ;ANSWER HERE
      00EC 126 ;
      00EC 127 .ALIGN LONG,0 ;RAB AND FAB FOR DISK I/O MUST BE
      00EC 128 $FIBDEF ;ALLIGNED ON LONGWORD BOUNDRY
      00EC 129 $IODEF ;
      00EC 130 $SRMSDEF ;
      00EC 131 NAMBLK: $NAM ;
      014C 132 FAB_RBLOCK: ;DISK READ FAB READS ONE RECORD
      014C 133 ;1024 BYTES LONG
      014C 134 $FAB ALQ=1,FAC=GET,FNA=FILNAM,FNS=FILSIZ,-
      014C 135 FOP=CTG,MRS=1024,NAM=NAMBLK,ORG=SEQ,RFM=FIX ;DISK WRITE FAB
      019C 136 FAB_WBLOCK: ;DISK WRITE FAB
      019C 137 $FAB ALQ=1,FAC=PUT,FNA=FILNAM,FNS=FILSIZ,-
      019C 138 FOP=CTG,MRS=1024,NAM=NAMBLK,ORG=SEQ,RFM=FIX ;DISK READ RAB
      01EC 139 RAB_WBLOCK: ;DISK WRITE RAB
      01EC 140 $RAB FAB=FAB_WBLOCK,RAC=SEQ,RSZ=1024,RBF=FIRSTB
      0230 141 RAB_RBLOCK: ;DISK READ RAB
      0230 142 $RAB FAB=FAB_RBLOCK,RAC=SEQ,USZ=1024,UBF=FIRSTB
      0274 143 ;
      3A 4B 53 49 44 24 53 59 53 0274 144 FILNAM: .ASCII /SYSS$DISK:/ ;THE FILE NAME IS CONSTRUCTED
      00000289 027D 145 BEGADR: .BLKL 3 ;HERE IN BLKRD AND BLKWT
      48 54 46 2E 0289 146 FTHADR: .ASCII /.FTH/ ;THE FNA(FILENAME) AND FNS(FILENAME
      00000019 028D 147 FILSIZ=.-FILNAM ;SIZE) AS WELL AS BUFFER LOCATIONS
      028D 148 ;ARE UPDATED DURING EXECUTION OF
      028D 149 ;BLKRD OR BLKWT
      028D 150 ;
      028D 151 ; COLD START ROUTINE
      028D 152 ;
      028D 153 ;
      53 D4 028D 154 COLD: CLRL R3
      54 D4 028F 155 CLRL R4
      55 D4 0291 156 CLRL R5
      56 D4 0293 157 CLRL R6
      57 D4 0295 158 CLRL R7
      58 D4 0297 159 CLRL R8
      59 D4 0299 160 CLRL R9
      5A D4 029B 161 CLRL R10
      5B D4 029D 162 CLRL R11
      5A 02E9'8F R0 029F 163 MOVW #SRTPARM,R10
      5B 12DD'8F R0 02A4 164 MOVW #FRTH+14,R11
      6B 6A R0 02A9 165 MOVW (R10),(R11) ;INITIALIZE TOP OF DICT.
      54 0B 90 02AC 166 MOVW #^X0B,R4
      000002BA'EF 17 02AF 167 JMP PUTF
      54 D4 02B5 168 WARM: CLRL R4 ;WARM ENTRY POINT
      54 0B 90 02B7 169 MOVW #^X0B,R4
      5A 02FD'8F R0 02BA 170 PUTF: MOVW #SRTPARM+^X4,R10
    
```



```

5A 53 6A B0 02BF MOVW (R10),R3
    02E9'8F B0 02C2 #SRTPARM,R10
5B 58 53 B0 02C7 MOVW R3,R11
8B 8A B0 02CA MOVW (R10)+,(R11)+
    FA 54 F5 02CD SOBGTR R4,WRMLP
56 1335'8F B0 02D0 MOVW #ABORT+2,R6
    00000602'FF 17 02D5 JMP RP1+2
    02D8 178
    02DR 179 ?
    02DR 180 ?
    02DR 181 ?
    02DR 182 ?
    02DB 183 ?
    02DB 184 ?
    02DB 185
    02DB 186
    02DB 186
02E5 00002F9
02E9 1DDA'
    007F 02EB 190
    6DE5' 02ED 191
    65E5' 02EF 192
    6DE4' 02F1 193
    69E4' 02F3 194
    0Q1F' 02F5 195
    0001 02F7 196
    1DE5' 02F9 197
    1DE5' 02FA 198
    12DF' 02FD 199
    02FF 200
    02FF 201
    02FF 202
    02FF 203
    83 02FF 204
    49 4C 0300 205
    D4 0302 206
    0000 0303 207
    0307' 0305 208
    59 02 A0 0307 209
    69 86 B0 030A 210
    57 86 B0 030D 211
    5R 87 3C 0310 212
    6B 17 0313 213
    0315 214
    H7 0315 215
54 55 43 45 58 45 0316 .ASCII /EXECUT/
    C5 031C 217 .RYTE ^XC5
    02FF' 031D 218 .WORD LIT-6
    0321' 031F 219 EXE: .WORD FXE+2
    57 69 B0 0321 220 MOVW (R9),R7
    59 02 A2 0324 221 SURW2 #2,R9
    5R 87 3C 0327 222 MOVZWL (R7)+,R11
    6R 17 032A 223 JMP (R11)
    032C 224 .BYTE ^X86
    86 032C 225 .ASCII /BRANC/
    43 4F 41 52 42 032D 226 .RYTE ^XC8
    C8 0332 227

```

START OF FORTH PROGRAM

STARTUP PARAMETERS

```

30 38 37 2D 31 31 20 58 41 56 .ASCII /VAX 11-780/
    00002F9 .BLKW 2

```

SRTPARM:

```

188 .WORD TASK-7
189 .WORD ^X7F
190 .WORD FEND+^X5000
191 .WORD FEND+^X4800
192 .WORD FEND+^X4FFF
193 .WORD FEND+^X4BFF
194 .WORD 31
195 .WORD 1
196 .WORD FEND
197 .WORD FEND
198 .WORD FEND
199 .WORD FRTH+16
200
201
202
203
204
205
206
207
208
209
210
211
212
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217
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219
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221
222
223
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225
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227

```

```

;TOPMOST PROGRAM IN FORTH VOCAB
;BACKSPACE
;INITIAL USER AREA
;INITIAL COMPUTATIONAL STACK
;INITIAL RETURN STACK
;TERMINAL BUFFER (TIB)
;NAME FIELD WIDTH
;WARNING..(LOOKS FOR DISK)
;INITIAL FENCE
;INITIAL DICTIONARY POINTER
;INITIAL VOCABULARY LINK

```

```

;LIT
;(NOTE: THIS IS DIFFERENT FROM LITERAL)

```

```

;EXECUTE
;EXECUTES DEFINITION WHOSE CFA IS ON
;THE STACK

```

```

      0315' 0333 228      .WORD   EXE=10
      0337' 0335 229 BRCH:  .WORD   BRCH+2      ;BRANCH
56   86   80   0337 230      MOVW   (R6)+,R6      ;RUN TIME UNCONDITIONAL BRANCH
57   86   80   033A 231      MOVW   (R6)+,R7
58   87   3C   033D 232      MOVZWL (R7)+,R11
      6B   17   0340 233      JMP    (R11)
      0342 234
      87   0342 235      .BYTE   ^X87
43 4E 41 52 42 30 0343 236      .ASCII  /OBRANC/
      C8   0349 237      .BYTE   ^XC8
      032C' 034A 238      .WORD   BRCH=9
      034E' 034C 239 ZBRCH: .WORD   ZBRCH+2      ;OBRANCH=BRANCH IF TOP WORD ON
      69   85   034E 240      TSTW   (R9)      ;STACK EQUALS ZERO
      0E   13   0350 241      BEQLU  ZBR1
59   02   A2   0352 242      SUBW2  #2,R9
56   02   A0   0355 243      ADDW2  #2,R6
57   86   80   0358 244      MOVW   (R6)+,R7
58   87   3C   035B 245      MOVZWL (R7)+,R11
      6B   17   035E 246      JMP    (R11)
59   02   A2   0360 247 ZBR1:  SUBW2  #2,R9
56   86   80   0363 248      MOVW   (R6)+,R6
57   86   80   0366 249      MOVW   (R6)+,R7
58   87   3C   0369 250      MOVZWL (R7)+,R11
      6B   17   036C 251      JMP    (R11)
      036E 252
      86   036E 253      .BYTE   ^X86
50 4F 4F 4C 28 036F 254      .ASCII  /(LOOP/
      A9   0374 255      .BYTE   ^XA9
      0342' 0375 256      .WORD   ZBRCH=10
      0379' 0377 257 LUPE:  .WORD   LUPE+2      ;(LOOP) RUN TIME PROCEDURE COMPILED
      68   01   A0   0379 258      ADDW2  #1,(R8)      ;BY LOOP WHICH INCREMENTS THE LOOP
58   88   80   037C 259      MOVW   (R8)+,R11      ;INDEX AND TESTS FOR LOOP COMPLETION
58   88   58   A3   037F 260      SUBW3  R11,(R8)+,R11
      08   14   0383 261      BGTR  LUPE2
56   02   A0   0385 262      ADDW2  #2,R6
57   86   80   0388 263      MOVW   (R6)+,R7
58   87   3C   038B 264      MOVZWL (R7)+,R11
      6B   17   038E 265      JMP    (R11)
58   04   A2   0390 266 LUPE2:  SUBW2  #4,R8
56   86   80   0393 267      MOVW   (R6)+,R6
57   86   80   0396 268      MOVW   (R6)+,R7
58   87   3C   0399 269      MOVZWL (R7)+,R11
      6B   17   039C 270      JMP    (R11)
      039E 271
      87   039E 272      .BYTE   ^X87
50 4F 4F 4C 28 039F 273      .ASCII  /(+LOOP/
      A9   03A5 274      .BYTE   ^XA9
      036E' 03A6 275      .WORD   LUPE=9
      03AA' 03A8 276 PLUPE:  .WORD   PLUPE+2      ;(+LOOP) RUN TIME PROCEDURE COMPILED
      69   85   03AA 277      TSTW   (R9)      ;BY LOOP WHICH ADDS INDEX AND TESTS
      29   19   03AC 278      BLSS  NPLUPE      ;FOR LOOP COMPLETION
68   69   68   A1   03AF 279      ADDW3  (R8),(R9),(R8)
59   02   A2   03B2 280      SUBW2  #2,R9
58   88   80   03B5 281      MOVW   (R8)+,R11
58   88   58   A3   03B8 282      SUBW3  R11,(R8)+,R11
      08   14   03BC 283      BGTR  PLUPE2
56   02   A0   03BE 284      ADDW2  #2,R6

```

```

57 86 R0 03C1 MOVW (R6)+,R7
5R 87 3C 03C4 MOVZWL (R7)+,R11
6B 17 03C7 JMP (R11)
58 04 A2 03C9 SUBW2 #4,R8
56 86 B0 03CC MOVW (R6)+,R6
57 86 B0 03CF MOVW (R6)+,R7
5B 87 3C 03D2 MOVZWL (R7)+,R11
6R 17 03D5 JMP (R11)
69 68 A1 03D7 NPI,UPF: ADDW3 (R8),(R9),(R8)
59 02 A2 03DB SUBW2 #2,R9
5R 88 R0 03DE MOVW (R8)+,R11
5R 88 A2 03F1 SUBW2 (R8)+,R11
E3 14 03F4 RGTR PLUPE2
56 02 A0 03E6 ADDW2 #2,R6
57 86 R0 03F9 MOVW (R6)+,R7
5R 87 3C 03EC MOVZWL (R7)+,R11
6R 17 03FF JMP (R11)
84 03F1 .BYTE 'X84
4F 44 28 03F2 .ASCII /DO/
A9 03F5 .BYTE 'XA9
039E' 03F6 .WORD PLUPE-10
03FA' 03F8 307 PDD: PDD+2
59 02 A2 03FA SUBW2 #2,R9
78 89 B0 03FD MOVW (R9)+,-(R8)
78 69 B0 0400 SUBW2 #4,R9
59 04 A2 0403 MOVW (R6)+,R7
57 86 R0 0406 MOVZWL (R7)+,R11
5R 87 3C 0409 JMP (R11)
6B 17 040C .BYTE 'X85
040E 315 .ASCII /DIGI/
85 040E .BYTE 'XD4
49 47 49 44 040F .WORD PDD-7
D4 0413 .WORD PDD+2
03F1' 0414 .SUBB3 #'X30,(R9),R5
0418' 0416 .BLSSU BAD
59 02 A2 0418 CMPR R5,'X0A
69 30 83 041B .BLSSU DOK
28 1F 041F CMPR R5,'X11
0A 55 91 0421 .BLSSU RAD
11 55 91 0424 CMPH R5,'X2B
2B 55 91 042B .BLSSU BAD
1C 1F 042E SUBR2 #'X07,R5
55 07 82 0430 .ADDW2 #2,R9
59 02 A0 0433 .CMPB R5,(R9)
69 55 91 0436 .RGEOU RAD
11 1E 0439 SUBW2 #2,R9
59 02 A2 043B MOVW R5,(R9)+
89 55 R0 043E MOVW #1,(R9)
69 01 R0 0441 MOVW (R6)+,R7
57 86 R0 0444 MOVZWL (R7)+,R11
5R 87 3C 0447 JMP (R11)
6R 17 044A .WORD #0,(R9)
69 00 R0 044C MOVW (R6)+,R7
57 86 R0 044F

```

!NEGATIVE INCREMENTS ARE HANDLED HERE

!DOO RUN TIME PROCEDURE COMPILED BY
!DO WHICH MOVES LOOP CONTROL PARAMETERS
!TO THE RETURN STACK

!CONVERTS ASCII CHARACTER TO BINARY
!EQUIVALENT. LEAVES FLASE FLAG IF
!UNSUCCESSFUL

```

      5B 87 3C 0452 342      MOVZWL (R7)+,R11
      6B 17 0455 343      JMP (R11)
                        0457 344
                        86 0457 345      .BYTE ^X86
44 4E 49 46 28 0458 346      .ASCII /(FIND/
                        A9 045D 347      .BYTE ^XA9
                        040E' 045E 348      .WORD DGT-8
                        0462' 0460 349 FIND: .WORD FIND+2
                        0462 350
                        0462 351
                        0462 352
                        54 D4 0462 353      CLRL R4
5A 69 3C 0464 354      MOVZWL (R9),R10
5B 79 3C 0467 355      MOVZWL -(R9),R11
55 6A 9A 046A 356 FIND1: MOVZBL (R10),R5
54 8B 8A 8D 046D 357      XORB3 (R10)+,(R11)+,R4
54 3F 93 0471 358      BITB #^X3F,R4
                        22 12 0474 359      BNEQU PFIND9
                        6A 95 0476 360 FIND2: TSTB (R10)
                        18 14 0478 361      BGTR PFIND8
54 8B 8A 8D 047A 362      XORB3 (R10)+,(R11)+,R4
54 7F 8F 93 047F 363      BITB #^X7F,R4
                        1D 13 0482 364      BEQLU FOUND
                        6A B5 0484 365 PFIND3: TSTW (R10)
                        2D 12 0486 366      BNEQU BOK
                        69 B4 0488 367      CLRW (R9)
57 86 B0 048A 368      MOVW (R6)+,R7
5B 87 3C 048D 369      MOVZWL (R7)+,R11
                        6B 17 0490 370      JMP (R11)
54 8B 8A 8D 0492 371 PFIND8: XORB3 (R10)+,(R11)+,R4
                        DE 13 0496 372      BEQLU FIND2
8A 80 8F 93 0498 373 PFIND9: BITB #^X80,(R10)+
                        FA 13 049C 374      BEQLU PFIND9
                        E3 AF 17 049E 375      JMP PFIND3
5A 04 A0 04A1 376 FOUND: ADDW2 #4,R10
89 5A B0 04A4 377      MOVW R10,(R9)+
89 55 B0 04A7 378      MOVW R5,(R9)+
69 01 B0 04AA 379      MOVW #1,(R9)
57 86 B0 04AD 380      MOVW (R6)+,R7
5B 87 3C 04B0 381      MOVZWL (R7)+,R11
                        6B 17 04B3 382      JMP (R11)
5A 6A B0 04B5 383 BOK: MOVW (R10),R10
5B 69 B0 04B8 384      MOVW (R9),R11
AC AF 17 04BB 385      JMP FIND1
                        04BE 386
                        87 04BE 387      .BYTE ^X87
53 4F 4C 43 4E 45 04BF 388      .ASCII /ENCLOS/
                        C5 04C5 389      .BYTE ^XC5
                        0457' 04C6 390      .WORD FJND-9
                        04CA' 04C8 391 ENCL: .WORD ENCL+2
                        04CA 392
                        54 D4 04CA 393      CLRL R4
                        5B D4 04CC 394      CLRL R11
59 02 A2 04CE 395      SUBW2 #2,R9
5A 89 3C 04D1 396      MOVZWL (R9)+,R10
55 69 9A 04D4 397      MOVZBL (R9),R5
                        6A 95 04D7 398 LOP1: TSTR (R10)

```

```

;(FIND)
;SEARCHES DICTIONARY. RETURNS PFA,
;LENGTH OF NAME AND TRUE FLAG IF
;SUCCESSFUL. LEAVES FALSE FLAG IF
;UNSUCCESSFUL.
;R10 GETS POINTER TO TOP OF DICTIONARY
;R11 GETS POINTER TO TEXT TO BE MATCHED
;R5 GETS LENGTH BYTE FROM DICTIONARY

```

```

;ENCLOSE
;TEXT SCANNING PRIMITIVE USED BY WORD
;SEARCHES FOR DELIMITER OR NULL
;R11 IS OFFSET TO NEXT WORD

```

```

;SAVE DELIMITER IN R5

```

```

30 13 04D9 399      BEQIU  NULL
54 55 6A 83 04DB 400      SUBB3  (R10),R5,R4      ;FIND FIRST NON-DELIM CHAR
      07 12 04DF 401      BNEQU  FRST
      5A B6 04E1 402      INCW   R10
      5B B6 04E3 403      INCW   R11
      EF AF 17 04F5 404      JMP    LOP1
      89 5B B0 04E8 405 FRST:  MOVW   R11,(R9)+      ;SAVE OFFSET TO FIRST CHAR
      6A 95 04FB 406 LOP2:  TSTB   (R10)
      29 13 04ED 407      BEQIU  NULL1      ;EQUAL NULL?
54 55 6A 83 04FF 408      SUBB3  (R10),R5,R4      ;SUBTRACT DELIMIN
      07 13 04F3 409      BEQIU  DELIM
      5A B6 04F5 410      INCW   R10
      5B B6 04F7 411      INCW   R11
      EF AF 17 04F9 412      JMP    LOP2
      89 5B B0 04FC 413 DELTM: MOVW   R11,(R9)+      ;FOUND DELIMITER
69 5A 01 A1 04FF 414      ADDW3  #1,R11,(R9)
      57 86 B0 0503 415      MOVW   (R6)+,R7
      5B 87 3C 0506 416      MOVZWL (R7)+,R11
      6B 17 0509 417      JMP    (R11)
      89 5B B0 050B 418 NULL:  MOVW   R11,(R9)+      ;LEAVE OFFSET TO NEXT CHARACTER
89 5A 01 A1 050E 419      ADDW3  #1,R11,(R9)+
0000051B'EF 17 0512 420      JMP    NULL2
      89 5B B0 0518 421 NULL1: MOVW   R11,(R9)+
      69 5B B0 051B 422 NULL2: MOVW   R11,(R9)      ;FOUND NULL
      57 86 B0 051E 423      MOVW   (R6)+,R7
      5B 87 3C 0521 424      MOVZWL (R7)+,R11
      6B 17 0524 425      JMP    (R11)
      0526 426
      85 0526 427      .BYTE  ^X85
54 4F 4D 43 0527 428      .ASCII /CMOV/
      C5 052B 429      .BYTE  ^XC5
      04BE' 052C 430      .WORD  ENCL=10
      0530' 052E 431 CMOVE:  .WORD  CMOVE+2      ;CMOVE
      0530 432      ;MOVE THE SPECIFIED NUMBER OF BYTE
      0530 433      ;FROM ADDR TO ADDR
      55 69 3C 0530 434      MOVZWL (R9),R5      ;R5 CONTAINS THE COUNT
      5A 79 3C 0533 435      MOVZWL -(R9),R10      ;R10 CONTAINS THE TO ADDR
      5B 79 3C 0536 436      MOVZWL -(R9),R11      ;R11 CONTAINS THE FROM ADDR
      59 02 A2 0539 437      SUBW2  #2,R9
      8A 8B 90 053C 438 LUUP:  MOVB   (R11)+,(R10)+
      FA 55 F5 053F 439      SORGTR R5,LUUP
      57 86 B0 0542 440      MOVW   (R6)+,R7
      5B 87 3C 0545 441      MOVZWL (R7)+,R11
      6B 17 0548 442      JMP    (R11)
      054A 443
      82 054A 444      .BYTE  ^X82
      55 054B 445      .ASCII /U/
      AA 054C 446      .BYTE  ^XAA
      0526' 054D 447      .WORD  CMOVE-8
      0551' 054F 448 USTAR:  .WORD  USTAR+2      ;U*
      5A 69 3C 0551 449      MOVZWL (R9),R10      ;LEAVES THE UNSIGNED DOUBLE NUMBER
      5B 79 3C 0554 450      MOVZWL -(R9),R11      ;PRODUCT OF TWO UNSIGNED NUMBERS
5A 5A 5B C5 0557 451      MULL3  R11,R10,R11
      69 5B D0 055B 452      MOVL   R11,(R9)
      59 02 A0 055E 453      ADDW2  #2,R9
      57 86 B0 0561 454      MOVW   (R6)+,R7
      5B 87 3C 0564 455      MOVZWL (R7)+,R11

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5A 54
54 69 54 17 0567 456
59 04 A2 0575 465
5A 69 00 0578 466
5A 54 78 0578 467
89 5A 80 0580 468
69 54 80 0583 469
57 86 80 0586 470
5B 87 3C 0589 471
6B 17 058C 472
    058E 473
    83 058E 474
4E 41 058F 475
    C4 0591 476
    0599' 0592 477
    0596' 0594 478
5A 69 B2 0596 479
79 5A AA 0599 480
57 86 80 059C 481
5B 87 3C 059F 482
6B 17 05A2 483
    05A4 484
    82 05A4 485
    4F 05A5 486
    D2 05A6 487
    058E' 05A7 488
05AB' 05A9 489
69 69 A8 05AB 490
57 86 80 05AE 491
5B 87 3C 05B1 492
6B 17 05B4 493
    05B6 494
    83 05B6 495
4F 58 05B7 496
    D2 05B9 497
    05A4' 05BA 498
05BE' 05BC 499
69 69 AC 05BE 500
57 86 80 05C1 501
5B 87 3C 05C4 502
6B 17 05C7 503
    05C9 504
    83 05C9 505
    50 53 05CA 506
    C0 05CC 507
    05B6' 05CD 508
05D1' 05CF 509
5A 59 B0 05D1 510
5A 02 A0 05D4 511
6A 5A B0 05D7 512

JMP (R11)
.HYTE ^X82
.ASCII /U/
.BYTE ^XAF
.WORD USTAR=5
.WORD USLISH+2
CLR, R11
MOVZWL (R9),R4
SUBW2 #4,R9
MOVL, (R9),R10
EDIV R4,R10,R4,R10
MOVW R10,(R9)+
MOVW R4,(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP (R11)

.RYTE ^X83
.ASCII /AN/
.BYTE ^XC4
.WORD USLISH=5
.WORD FAND+2
MCOMW (R9),R10
BICW2 R10,-(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP (R11)

.RYTE ^X82
.ASCII /O/
.BYTE ^XD2
.WORD FAND=6
.WORD FFOR+2
BISW2 (R9),-(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP (R11)

.BYTE ^X83
.ASCII /XO/
.BYTE ^XD2
.WORD FFOR=5
.WORD FXOR+2
XORW2 (R9),-(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP (R11)

.RYTE ^X83
.ASCII /SP/
.BYTE ^XC0
.WORD FXOR=6
.WORD FSPAT+2
MOVW R9,R10
ADDW2 #2,R9
MOVW R10,(R9)

;U/
;UNSIGNED INTEGER DIVIDE
;R4 GETS THE DIVISOR (WORD)

;R10 AND R11 GET THE DIVIDEND (QUAD)
;EDIV LEAVES QUOTIENT IN R4, REM IN R10

;LEAVE BITWISE AND OF TWO WORDS

;FOR
;LEAVES THE BITWISE LOGICAL OR OF TWO
;16 BIT NUMBERS

;XOR
;LEAVES THE BITWISE LOGICAL EXCLUSIVE-
;FOR OF TWO 16 BIT NUMBERS

;SP@
;RETURNS THE ADDRESS OF THE STACK
;POSITION TO THE TOP OF STACK AS IT
;WAS BEFORE SPA
    
```



```

57 86 B0 05DA 513      MOVW   (R6)+,R7
58 87 3C 05DD 514      MOVZWL (R7)+,R11
    6B 17 05E0 515      JMP    (R11)
    05E2 516
    83 05E2 517        .BYTE  ^X03
    50 53 05E3 518      .ASCII /SP/
    A1 05E5 519        .BYTE  ^XA1
    05C9' 05E6 520      .WORD  FSPAT-6
54 53 06 A1 05EA 522    SP1:   .WORD  SP1+2          ;SPI
59 64 02 A3 05EE 523    ADDW3  #^X6,R3,R4    ;INITIALIZE THE SP FROM SO
    57 86 B0 05F2 524    SUBW3  #2,(R4),R9
    58 87 3C 05F5 525    MOVW   (R6)+,R7
    6B 17 05F8 526      MOVZWL (R7)+,R11
    05FA 527          JMP    (R11)
    83 05FA 528        .BYTE  ^X03
    50 52 05FB 529      .ASCII /RP/
    A1 05FD 530        .BYTE  ^XA1
    05E2' 05FE 531      .WORD  SP1-6
54 53 08 A1 0602 533    RP1:   .WORD  RP1+2        ;RPI
58 64 B0 R0 0606 534    ADDW3  #^X8,R3,R4    ;INITIALIZE THE RETURN STACK
57 86 B0 R0 0609 535    MOVW   (R4),R8       ;POINTER FROM RO
58 87 3C R0 060C 536    MOVW   (R6)+,R7
    6B 17 R0 060F 537    MOVZWL (R7)+,R11
    0611 538          JMP    (R11)
    82 0611 539        .BYTE  ^X02
    3B 0612 540        .ASCII //
    D3 0613 541        .BYTE  ^XD3
    05FA' 0614 542      .WORD  RP1-6
    0618' 0616 543      .WORD  SEMIS+2    ;;S
56 88 B0 R0 0618 544    MOVW   (R8)+,R6     ;RUN TIME WORD COMPILED AT END
57 86 B0 R0 061B 545    MOVW   (R6)+,R7     ;OF A COLON DEFINITION WHICH
58 87 3C R0 061E 546    MOVZWL (R7)+,R11
    6B 17 R0 0621 547    JMP    (R11)
    0623 548
    85 0623 549        .BYTE  ^X05
56 41 45 4C 0624 550    .ASCII /LEAV/
    C5 0628 551        .BYTE  ^XC5
    0611' 0629 552      .WORD  SEMIS-5
    062D' 062B 553      .WORD  LVE+2    ;LEAVE
5A 88 B0 R0 062D 554    MOVW   (R8)+,R10    ;FORCE TERMINATION OF A DO-LOOP BY
68 5A B0 R0 0630 555    MOVW   R10,(R8)     ;SETTING THE LIMIT EQUAL TO THE INDEX
58 02 A2 0633 556      SUBW2  #2,R8
57 86 B0 R0 0636 557    MOVW   (R6)+,R7
58 87 3C R0 0639 558    MOVZWL (R7)+,R11
    6B 17 R0 063C 559    JMP    (R11)
    063E 560
    82 063E 561        .BYTE  ^X02
    3E 063F 562        .ASCII />/
    D2 0640 563        .BYTE  ^XD2
    0623' 0641 564      .WORD  LVE-8
    0645' 0643 565      .WORD  CR+2    ;>R
78 69 R0 R0 0645 566    MOVW   (R9),-(R8)   ;TOR-MOVE A WORD FROM THE DATA STACK
59 02 A2 0648 567      SUBW2  #2,R9        ;TO THE MOST ACCESSABLE ON THE RP
57 86 B0 R0 064B 568    MOVW   (R6)+,R7
58 87 3C R0 064E 569    MOVZWL (R7)+,R11

```

```

68 17 0651 570 JMP (R11)
      0653 571 .BYTE ^X92
      0654 572 .ASCII /R/
      0655 573 .BYTE ^XRE
      0656 574 .WORD GR-5
      0657 575 .WORD RG+2
      0658 576 RG:
      0659 577 ADDW2 #2,R9
      0660 578 MOVW (R8)+,(R9)
      0661 579 MOVW (R6)+,R7
      0662 580 MOVZWL (R7)+,R11
      0663 581 JMP (R11)
      0664 582 .BYTE ^X81
      0665 583 .BYTE ^XD2
      0666 584 .WORD RG-5
      0667 585 .WORD R+2
      0668 586 R:
      0669 587 ADDW2 #2,R9
      0670 588 MOVW (R8)+,(R9)
      0671 589 MOVW (R6)+,R7
      0672 590 MOVZWL (R7)+,R11
      0673 591 JMP (R11)
      0674 592 .BYTE ^X82
      0675 593 .ASCII /O/
      0676 594 .BYTE ^XBD
      0677 595 .WORD R-4
      0678 596 .WORD ZEQAL+2
      0679 597 TSTW (R9)
      0680 598 BNEQ NONE
      0681 599 MOVW #^X01,(R9)
      0682 600 MOVW (R6)+,R7
      0683 601 MOVZWL (R7)+,R11
      0684 602 JMP (R11)
      0685 603 .NONE:
      0686 604 MOVW #0,(R9)
      0687 605 MOVW (R6)+,R7
      0688 606 MOVZWL (R7)+,R11
      0689 607 JMP (R11)
      0690 608 .BYTE ^X83
      0691 609 .ASCII /D0/
      0692 610 .BYTE ^XBD
      0693 611 .WORD ZEQAL-5
      0694 612 .WORD DZEQAL+2
      0695 613 SUBW2 #2,R9
      0696 614 TSTL (R9)
      0697 615 BNEQ DNONE
      0698 616 MOVW #^X01,(R9)
      0699 617 MOVW (R6)+,R7
      0700 618 MOVZWL (R7)+,R11
      0701 619 JMP (R11)
      0702 620 DNONE:
      0703 621 MOVW #0,(R9)
      0704 622 MOVW (R6)+,R7
      0705 623 MOVZWL (R7)+,R11
      0706 624 JMP (R11)
      0707 625 .BYTE ^X82
      0708 626

```

```

!R>
!FROMR MOVE A WORD FROM THE MOST
!ACCESSABLE ON THE RP TO THE DATA STACK

```

```

!R
!COPY TOP OF RETURN STACK TO TOP OF
!DATA STACK

```

```

!O=
!TEST FOR ZERO ON TOP OF STACK
!LEAVE ONE IF TRUE

```

```

!LEAVE ZERO IF FALSE

```

```

!DO=
!POP TOP HALF OF DOUBLE NUMBER
!TEST FOR ZERO ON TOP OF STACK

```

```

!LEAVE ONE IF TRUE

```

```

!LEAVE ZERO IF FALSE

```

```

        30 06C3 627      .ASCII /0/
        BC 06C4 628      .BYTE ^XBC
    069D' 06C5 629      .WORD DZSQL=6
    06C9' 06C7 630 ZLESS: .WORD ZLESS+2          ;0<
    69  B5 06C9 631      TSTW (R9)              ;LEAVE TRUE FLAG IF NUMBER IS LESS
    08  19 06CB 632      BLSS ZLONE             ;THAN ZERO
59  00  B0 06CD 633      MOVW #0,(R9)           ;LEAVE FALSE FLAG OTHERWISE
57  86  B0 06D0 634      MOVW (R6)+,R7
5B  87  3C 06D3 635      MOVZWL (R7)+,R11
    68  17 06D6 636      JMP (R11)
    69  01  B0 06D8 637 ZLONE: MOVW #^X01,(R9)
    57  86  B0 06DB 638      MOVW (R6)+,R7
    5B  87  3C 06DE 639      MOVZWL (R7)+,R11
    68  17 06E1 640      JMP (R11)
        06E3 641
        81 06E3 642      .BYTE ^X81
        AB 06E4 643      .BYTE ^XAB
    06C2' 06E5 644      .WORD ZLESS=5
    06E9' 06E7 645 PLUS: .WORD PLUS+2          ;+
    79  69  A0 06E9 646      ADDW2 (R9),-(R9)        ;LEAVE THE SUM OF TWO 16 BIT NUMBERS
    57  86  B0 06EC 647      MOVW (R6)+,R7
    5B  87  3C 06EF 648      MOVZWL (R7)+,R11
    68  17 06F2 649      JMP (R11)
        06F4 650
        85 06F4 651      .BYTE ^X85'
    55 4E 49 4D 06F5 652      .ASCII /MINU/
        D3 06F9 653      .BYTE ^XD3
    06E3' 06FA 654      .WORD PLUS=4
    69  69  AE 06FE 655 MINUS: .WORD MINUS+2        ;MINUS
    57  86  B0 0701 656      MNEGW (R9),(R9)        ;LEAVES TWO'S COMPLEMENT OF NUMBER
    5B  87  3C 0704 658      MOVZWL (R7)+,R11
    68  17 0707 659      JMP (R11)
        0709 660
        82 0709 661      .BYTE ^X82
        44 070A 662      .ASCII /D/
        AB 070B 663      .BYTE ^XAB
    06F4' 070C 664      .WORD MINUS=8
    0710' 070E 665 DPLUS: .WORD DPLUS+2          ;D+
    59  02  A2 0710 666      SUBW2 #2,R9          ;LEAVE THE DOUBLE NUMBER SUM OF TWO
    79  69  C0 0713 667      ADDL2 (R9),-(R9)        ;DOUBLE NUMBERS
    59  02  A0 0716 668      ADDW2 #2,R9          ;DOUBLE PRECISION INTEGERS ARE STORED
    57  86  B0 0719 669      MOVW (R6)+,R7          ;LOW 16 BITS-----BOTTOM
    5B  87  3C 071C 670      MOVZWL (R7)+,R11
    68  17 071F 671      JMP (R11)
        0721 672
    55 4E 49 4D 44 0722 674      .BYTE ^X86
        D3 0727 675      .ASCII /DMINU/
    0709' 0728 676      .WORD DPLUS=5
    072C' 072A 677 DMIN: .WORD DMIN+2          ;DMINUS
    59  02  A2 072C 678      SUBW2 #2,R9          ;LEAVES TWO'S COMPLEMENT OF DOUBLE
    69  69  CF 072F 679      MNEGL (R9),(R9)        ;NUMBER ON STACK
    59  02  A0 0732 680      ADDW2 #2,R9
    57  86  B0 0735 681      MOVW (R6)+,R7
    5B  87  3C 0738 682      MOVZWL (R7)+,R11
    68  17 0738 683      JMP (R11)

```

			073D	684					
		84	073D	685	.BYTE	^X84			
4F	52	44	073E	686	.ASCII	/DRD/			
		D0	0741	687	.BYTE	^XD0			
		0721'	0742	688	.WORD	DMIN-9			
		0746'	0744	689	.WORD	DROP+2			
59	02	A2	0746	690	SUBW2	#2,R9			;DROP
57	86	B0	0749	691	MOVW	(R6)+,R7			;DROP TOP ITEM OF DATA STACK
5B	87	3C	074C	692	MOVZWL	(R7)+,R11			
		6B	17	074F	JMP	(R11)			
			0751	694					
		84	0751	695	.BYTE	^X84			
45	56	4F	0752	696	.ASCII	/OVE/			
		D2	0755	697	.BYTE	^XD2			
		073D'	0756	698	.WORD	DROP-7			
		075A'	0758	699	.WORD	OVER+2			
59	02	A2	075A	700	SUBW2	#2,R9			;OVER
5A	89	B0	075D	701	MOVW	(R9)+,R10			;COPY SECOND STACK ITEM PLACING IT AS
59	02	A0	0760	702	ADDW2	#2,R9			;THE NEW TOP
69	5A	B0	0763	703	MOVW	R10,(R9)			
57	86	B0	0766	704	MOVW	(R6)+,R7			
5B	87	3C	0769	705	MOVZWL	(R7)+,R11			
		6B	17	076C	JMP	(R11)			
			076E	707					
		84	076E	708	.BYTE	^X84			
41	57	53	076F	709	.ASCII	/SWA/			
		D0	0772	710	.BYTE	^XD0			
		0751'	0773	711	.WORD	OVER-7			
		0777'	0775	712	.WORD	SWAP+2			
5A	69	B0	0777	713	MOVW	(R9),R10			;SWAP
5B	79	B0	077A	714	MOVW	-(R9),R11			;EXCHANGE THE TOP TWO ITEMS ON THE
89	5A	B0	077D	715	MOVW	R10,(R9)+			;STACK WITH EACH OTHER
69	5B	B0	0780	716	MOVW	R11,(R9)			
57	86	B0	0783	717	MOVW	(R6)+,R7			
5B	87	3C	0786	718	MOVZWL	(R7)+,R11			
		6B	17	0789	JMP	(R11)			
			078B	720					
		83	078B	721	.BYTE	^X83			
		55	44	078C	.ASCII	/DU/			
		D0	078E	723	.BYTE	^XD0			
		076E'	078F	724	.WORD	SWAP-7			
		0793'	0791	725	.WORD	DUP+2			
69	89	B0	0793	726	MOVW	(R9)+,R7			;DUP
57	86	B0	0796	727	MOVW	(R6)+,R7			;DUPLICATE THE TOP TWO VALUES ON THE
5B	87	3C	0799	728	MOVZWL	(R7)+,R11			
		6B	17	079C	JMP	(R11)			
			079E	730					
		82	079E	731	.BYTE	^X82			
		2B	079F	732	.ASCII	/+/			
		A1	07A0	733	.BYTE	^XA1			
		078B'	07A1	734	.WORD	DUP-6			
		07A5'	07A3	735	.WORD	PLUSS+2			
5A	69	3C	07A5	736	MOVZWL	(R9),R10			;+!
6A	79	A0	07A8	737	ADDW	-(R9),(R10)			;ADD NUMBER TO THE VALUE AT THE ADDRESS
59	02	A2	07AB	738	SUBW2	#2,R9			;ON STACK
57	86	B0	07AE	739	MOVW	(R6)+,R7			
5B	87	3C	07B1	740	MOVZWL	(R7)+,R11			

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        6B 17 07B4 741      JMP      (R11)
                07B6 742
                86 07B6 743      .BYTE  ^X86
4C 47 47 4F 54 07B7 744      .ASCII  /TOGGL/
                C5 07BC 745      .BYTE  ^XC5
                079E' 07BD 746      .WORD  PLUSS-5
                07C1' 07BF 747      .WORD  TGLE+2      ;TOGGLE
54 69 90 07C1 748      MOVW   (R9),R4      ;COMPLEMENT THE CONTENTS AT ADDRESS
5A 79 3C 07C4 749      MOVZWL -(R9),R10     ;BY THE BIT PATTERN
59 02 A2 07C7 750      SUBW2  #2,R9
6A 54 8C 07CA 751      XORB2  R4,(R10)
57 86 B0 07CD 752      MOVW   (R6)+,R7
5B 87 3C 07D0 753      MOVZWL (R7)+,R11
        6B 17 07D3 754      JMP      (R11)
                07D5 755
                81 07D5 756      .BYTE  ^X81
                C0 07D6 757      .BYTE  ^XC0
                07B6' 07D7 758      .WORD  TGLE-9
                07DB' 07D9 759      .WORD  AT+2      ;#
5B 69 3C 07DB 760      MOVZWL (R9),R11     ;LEAVE THE 16 BIT CONTENTS OF THE
69 6B B0 07DE 761      MOVW   (R11),(R9)
57 86 B0 07E1 762      MOVW   (R6)+,R7
5B 87 3C 07E4 763      MOVZWL (R7)+,R11
        6B 17 07E7 764      JMP      (R11)
                07E9 765
                82 07E9 766      .BYTE  ^X82
                43 07EA 767      .ASCII  /C/
                C0 07EB 768      .BYTE  ^XC0
                07D5' 07EC 769      .WORD  AT-4
                07F0' 07EE 770      .WORD  CAT+2      ;C#
5A 69 3C 07F0 771      MOVZWL (R9),R10     ;LEAVE THE 8 BIT CONTENTS OF THE
69 6A 9B 07F3 772      MOVZBW (R10),(R9)   ;ADDRESS
57 86 B0 07F6 773      MOVW   (R6)+,R7
5B 87 3C 07F9 774      MOVZWL (R7)+,R11
        6B 17 07FC 775      JMP      (R11)
                07FE 776
                81 07FE 777      .BYTE  ^X81
                A1 07FF 778      .BYTE  ^XA1
                07E9' 0800 779      .WORD  CAT-5
                0804' 0802 780      .WORD  EX+2      ;I
5A 69 3C 0804 781      MOVZWL (R9),R10     ;STORE 16 BITS OF NUMBER AT
6A 79 B0 0807 782      MOVW   -(R9),(R10) ;ADDRESS
59 02 A2 080A 783      SUBW2  #2,R9
57 86 B0 080D 784      MOVW   (R6)+,R7
5B 87 3C 0810 785      MOVZWL (R7)+,R11
        6B 17 0813 786      JMP      (R11)
                0815 787
                82 0815 788      .BYTE  ^X82
                43 0816 789      .ASCII  /C/
                A1 0817 790      .BYTE  ^XA1
                07FE' 0818 791      .WORD  EX-4
                081C' 081A 792      .WORD  CEX+2      ;C!
5A 69 3C 081C 793      MOVZWL (R9),R10     ;STORE 8 BITS OF NUMBER AT
59 02 A2 081F 794      SUBW2  #2,R9      ;ADDRESS
6A 69 90 0822 795      MOVW   (R9),(R10)
59 02 A2 0825 796      SUBW2  #2,R9
57 86 B0 0828 797      MOVW   (R6)+,R7

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      5B 87 3C 082B 798      MOVZWL (R7)+,R11
      6B 17 082E 799      JMP (R11)
                0830 800
                84 0830 801      .BYTE ^X84
      49 4D 45 0831 802      .ASCII /EMI/
                D4 0834 803      .BYTE ^XD4
                0815' 0835 804      .WORD CEX-5
                0839' 0837 805      .WORD EMIT+2      ;EMIT
F845 CF 69 90 0839 806      MOVB (R9),TEMP1      ;EMIT CHARACTER IN TEMP1
      59 02 A2 083E 807      SUBW2 #2,R9
                0841 808      SQIO_S EFN=#1,CHAN=TTCHAN,-
                0841 809      FUNC=#IOS_WRITEVBLK!IOSM_NOFORMAT,-
                0841 810      IOSB=TTIOSB,-
                0841 811      P1=TEMP1,P2=#1
                0864 812      $WAITFR_S EFN=#1
      55 53 1A A1 086F 814      CLRL R5
      65 01 A0 0873 815      ADDW3 #^X1A,R3,R5
      57 86 B0 0876 816      ADDW2 #1,(R5)      ;MUST INCREMENT USER VARIABLE 'OUT'
      5B 87 3C 0879 817      MOVW (R6)+,R7
      6B 17 087C 818      MOVZWL (R7)+,R11
                087E 819      JMP (R11)
                83 087E 820      .BYTE ^X83
                45 4B 087F 821      .ASCII /KE/
                D9 0881 822      .BYTE ^XD9
                0830' 0882 823      .WORD EMIT-7
                0886' 0884 824      .WORD KEY+2      ;KEY
                0886 825      SQIO_S EFN=#1,CHAN=TTCHAN,-      ;INPUT ONE CHARACTER WITH NO ECHO
                0886 826      FUNC=#IOS_TTYREADALL!IOSM_NOECHO,-
                0886 827      IOSB=TTIOSB,-
                0886 828      P1=TEMP1,P2=#1      ;PUT CHARACTER IN TEMP1
                08A9 829      $WAITFR_S EFN=#1
      69 59 02 A0 08B2 830      ADDW2 #2,R9
      F7CA CF 9B 08B5 831      MOVZBW TEMP1,(R9)
      57 86 B0 08BA 832      MOVW (R6)+,R7
      5B 87 3C 08BD 833      MOVZWL (R7)+,R11
      6B 17 08C0 834      JMP (R11)
                08C2 835
                89 08C2 836      .BYTE ^X89
      41 4E 49 4D 52 45 54 3F 08C3 837      .ASCII /?TERMINA/
                CC 08CB 838      .BYTE ^XCC
                087E' 08CC 839      .WORD KEY-6
                08D0' 08CE 840      .WORD QTERM+2      ;?TERMINAL
      69 59 02 A0 08D0 841      ADDW2 #2,R9      ;ALLOWS BREAK BY TYPING <CTL>C
      F7AD CF 80 08D3 842      MOVW CTLC,(R9)
      F7AR CF B4 08D8 843      CLRW CTLC
      57 86 B0 08DC 844      MOVW (R6)+,R7
      5B 87 3C 08DF 845      MOVZWL (R7)+,R11
      6B 17 08E2 846      JMP (R11)
                08E4 847
                08E4 848      CTRLCAST:      ;SERVICE ROUTINE FOR <CTL>C INTERRUPT
      F799 CF 01 B0 08E4 849      .WORD 0      ;MUST SET UP NEXT INTERRUPT HERE ALSO
                08E6 850      MOVW #1,CTLC
                08E8 851      SQIO_S CHAN=TTCHAN,-
                08F8 852      FUNC=#IOS_SETMODE!IOSM_CTRLCAST,-
                08EB 853      P1=CTRLCAST,P3=#3
                04 090D 854      RET

```


855	090E	82	090E	856	.BYTE	^X82	
856	090F	43	090F	857	.ASCII	/C/	
857		D2	0910	858	.BYTE	^XD2	
858	08C2'	0911	0911	859	.WORD	OTERM-12	
859	091C'	0913	0913	860	.WORD	NEST	
860	0DCF'	0915	0915	861	.WORD	P00	
861		02	0917	862	.BYTE	^X02	
862		0D	0918	863	.BYTE	^X0D	
863		0A	0919	864	.BYTE	^X0A	
864		0616'	091A	865	.WORD	SEMIS	
865			091C	866			
866		78	56	867	MOVW	R6,-(R8)	
867		57	57	868	MOVW	R7,R6	
868		58	86	869	MOVW	(R6)+,R7	
869		59	87	870	MOVZWL	(R7)+,R11	
870		68	17	871	JMP	(R11)	
871			092A	872			
872		59	02	873	ADDW2	#2,R9	
873		69	57	874	MOVW	R7,(R9)	
874		57	86	875	MOVW	(R6)+,R7	
875		58	87	876	MOVZWL	(R7)+,R11	
876		68	17	877	JMP	(R11)	
877			0938	878			
878		59	02	879	ADDW2	#2,R9	
879		69	87	880	MOVW	(R7)+,(R9)	
880		57	86	881	MOVW	(R6)+,R7	
881		58	87	882	MOVZWL	(R7)+,R11	
882		68	17	883	JMP	(R11)	
883			0944	884			
884		59	02	885	ADDW2	#2,R9	
885		69	57	886	ADDW3	R3,(R7)+,(R9)	
886		57	86	887	MOVW	(R6)+,R7	
887		58	87	888	MOVZWL	(R7)+,R11	
888		68	17	889	JMP	(R11)	
889			0953	890			
890			0955	891			
891			0955	892			
892			0955	893			
893			0955	894			
894			0955	895			
895			0956	896			
896			0957	897			
897			0958	898			
898			0958	899			
899			095D	900			
900			095D	901			
901			095E	902			
902			095F	903			
903			0961	904			
904			0963	905			
905			0965	906			
906			0965	907			
907			0966	908			
908			0967	909			
909			0969	910			
910			096A	911			
911							

/CR
 /SEND CR/LF TO TERMINAL DEVICE

!RUN TIME ROUTINE WHICH
 !PUTS NEXT RETURN ADDR ON STACK

!RUN TIME ROUTINES COMPILED
 !BY VARIABLE,CONSTANT,USER

!CONSTANT
 !A DEFINING WORD USED TO CREATE A
 !CONSTANT

!USER
 !A DEFINING WORD USED TO CREATE A USER
 !VARIABLE

!0 CONSTANT

!1 CONSTANT

!2 CONSTANT

FROM HERE ON THE SOURCE IS GENERALLY DEFINED WITH FORTH WORD ADDRESSES

.BYTE ^X81
 .BYTE ^X80
 .WORD CR-5
 .WORD CONST
 .WORD 0

.BYTE ^X81
 .BYTE ^X81
 .WORD ZERO-4
 .WORD CONST
 .WORD 1

.BYTE ^X81
 .BYTE ^X82
 .WORD ONE-4
 .WORD CONST
 .WORD 2

```

      096D 912
      82 096D 913      .BYTE  ^X82
      42 096E 914      .ASCII  /B/
      CC 096F 915      .BYTE  ^XCC
      0965' 0970 916      .WORD  TWO-4
      0938' 0972 917  BL: .WORD  CONST      ;BL
      0020 0974 918      .WORD  ^X20      ;ASCII SPACE
      0976 919
      83 0976 920      .BYTE  ^X83
      2F 43 0977 921      .ASCII  \C\
      CC 0979 922      .BYTE  ^XCC
      096D' 097A 923      .WORD  BI-5
      0938' 097C 924  CL: .WORD  CONST      ;C/L CONSTANT
      0040 097E 925      .WORD  ^X40      ;NUMBER OF CHARACTERS PER LINE
      0980 926
      85 0980 927      .BYTE  ^X85
      53 52 49 46 0981 928      .ASCII  /FIR/
      D4 0985 929      .BYTE  ^XD4
      0976' 0986 930      .WORD  CL-6
      0938' 0988 931  FIRST: .WORD  CONST      ;FIRST CONSTANT
      A000 098A 932      .WORD  FIRSTB      ;ADDRESS OF FIRST SCREEN BUFFER
      098C 933
      85 098C 934      .BYTE  ^X85
      49 4D 49 4C 098D 935      .ASCII  /LIMI/
      D4 0991 936      .BYTE  ^XD4
      0980' 0992 937      .WORD  FIRST-8
      0938' 0994 938  LIMIT: .WORD  CONST      ;LIMIT CONSTANT
      B010 0996 939      .WORD  LIMITB      ;ADDRESS OF LAST LOCATION IN LAST
      0998 940      ;SCREEN BUFFER
      0998 941
      85 0998 942      .BYTE  ^X85
      55 42 2F 42 0999 943      .ASCII  \B/BU\
      C6 099D 944      .BYTE  ^XC6
      098C' 099E 945      .WORD  LIMIT-8
      0938' 09A0 946  BBUF: .WORD  CONST      ;B/BUF CONSTANT
      0400 09A2 947      .WORD  ^X400      ;LENGTH OF SCREEN BUFFERS
      09A4 948
      85 09A4 949      .BYTE  ^X85
      43 53 2F 42 09A5 950      .ASCII  \B/SC\
      D2 09A9 951      .BYTE  ^XD2
      0998' 09AA 952      .WORD  BBUF-8
      0938' 09AC 953  BSCR: .WORD  CONST      ;B/SCR CONSTANT
      0001 09AE 954      .WORD  1      ;BUFFERS/SCREEN
      09B0 955
      86 09B0 956      .BYTE  ^X86
      49 47 49 52 4F 09B1 957      .ASCII  /ORIGI/
      CE 09B6 958      .BYTE  ^XCE
      09A4' 09B7 959      .WORD  BSCR-8
      0938' 09B9 960  ORGN: .WORD  CONST      ;ORIGIN CONSTANT
      02DD' 09BB 961      .WORD  SRTPARM-^XOC
      09BD 962
      87 09BD 963      .BYTE  ^X87
      49 47 49 52 4F 2B 09BE 964      .ASCII  /+ORIGI/
      CE 09C4 965      .BYTE  ^XCE
      09B0' 09C5 966      .WORD  ORGN-9
      091C' 09C7 967  PORGN: .WORD  NEST      ;+ORIGIN CONSTANT
      09B9' 09C9 968      .WORD  ORGN

```

```

06E7' 09CB 969 .WORD PLUS
0616' 09CD 970 .WORD SEMIS
09CF 971
09CF 972 ;
09CF 973 ;USER VARIABLES
09CF 974 ;
09CF 975
82 09CF 976 .BYTE ^X82
53 09D0 977 .ASCII /S/
R0 09D1 978 .BYTE ^X80
09D' 09D2 979 .WORD PORGN=10
0946' 09D4 980 SD:
0006 09D6 981 .WORD 6
82 09D8 982 .BYTE ^X82
52 09D9 983 .ASCII /R/
R0 09DA 984 .BYTE ^X80
09CF' 09DB 985 .WORD SD=5
0946' 09DD 987 RO:
0008 09DF 988 .WORD 8
09E1 989
83 09E1 990 .BYTE ^X83
49 54 09E2 991 .ASCII /TI/
C2 09E4 992 .BYTE ^XC2
09D8' 09E5 993 .WORD RO=5
0946' 09E7 994 TIR:
000A 09E9 995 .WORD ^XA
09EB 996
85 09EB 997 .BYTE ^X85
54 44 49 57 09EC 998 .ASCII /WIDT/
C8 09F0 999 .BYTE ^XC8
09E1' 09F1 1000 .WORD TIB=6
0946' 09F3 1001 WIDTH:
000C 09F5 1002 .WORD USER
09F7 1003 .WORD ^XC
87 09F7 1004 .BYTE ^X87
4E 49 4E 52 41 57 09F8 1005 .ASCII /WARNIN/
C7 09FE 1006 .BYTE ^XC7
09FR' 09FF 1007 .WORD WIDTH=8
0946' 0A01 1008 WRNG:
000E 0A03 1009 .WORD USER
0A05 1010 .WORD ^XE
85 0A05 1011 .BYTE ^X85
43 4F 45 46 0A06 1012 .ASCII /FENC/
C5 0A0A 1013 .BYTE ^XC5
09F7' 0A0H 1014 .WORD WRNG=10
0946' 0A0D 1015 FNCF:
0010 0A0F 1016 .WORD USER
0A11 1017 .WORD ^X10
82 0A11 1018 .BYTE ^X82
44 0A12 1019 .ASCII /D/
D0 0A13 1020 .BYTE ^XD0
0A05' 0A14 1021 .WORD FNCF=8
0946' 0A16 1022 DP:
0012 0A18 1023 .WORD USER
0A1A 1024 .WORD ^X12
88 0A1A 1025 .BYTE ^X88

```

;SD
;INITIAL STACK POINTER

;RO
;INITIAL RETURN POINTER

;TIB
;INITIAL TERMINAL INPUT BUFFER

;WIDTH
;INITIAL CARRIAGE WIDTH

;WARNING
;USED FOR MESSAGE CONTROL. DEFAULT IS
;1 FOR ERROR MESSAGES FROM DISC

;FENCE
;VARIABLE WHICH SETS THE LIMIT FOR
;"FORGETTING" DICTIONARY DEFINITIONS

;DP
;VARIABLE WHICH CONTAINS THE DICTIONARY
;POINTER

```

4E 49 4C 2D 43 4F 56 0A1B 1026 .ASCII /VOC-LIN/
      CB 0A22 1027 .BYTE ^XCB
      0A11' 0A23 1028 .WORD DP-5
      0946' 0A25 1029 VL: .WORD USER
      0014 0A27 1030 .WORD ^X14
      0A29 1031 .BYTE ^X83
      83 0A29 1032 .ASCII /BL/
      4C 42 0A2A 1033 .BYTE ^XCB
      CB 0A2C 1034 .WORD VL-11
      0A1A' 0A2D 1035 .WORD USER
      0946' 0A2F 1036 BJK: .WORD ^X16
      0016 0A31 1037 .BYTE ^X82
      0A33 1038 .ASCII /I/
      82 0A33 1039 .BYTE ^XCE
      49 0A34 1040 .WORD BLK-6
      CE 0A35 1041 .WORD USER
      0A29' 0A36 1042 .WORD ^X18
      0946' 0A38 1043 FIN: .BYTE ^X83
      0018 0A3A 1044 .ASCII /OU/
      83 0A3C 1045 .BYTE ^XD4
      83 0A3C 1046 .WORD FIN-5
      55 4F 0A3D 1047 .WORD USER
      D4 0A3F 1048 .WORD ^X1A
      0A33' 0A40 1049 .BYTE ^X83
      0946' 0A42 1050 FOUT: .ASCII /SC/
      001A 0A44 1051 .BYTE ^XD2
      0A46 1052 .WORD FOUT-6
      83 0A46 1053 .WORD USER
      43 53 0A47 1054 .WORD ^X1C
      D2 0A49 1055 .BYTE ^X86
      0A3C' 0A4A 1056 .ASCII /OFFSE/
      0946' 0A4C 1057 FSCR: .BYTE ^XD4
      001C 0A4E 1058 .WORD FSCR-6
      86 0A50 1059 .WORD USER
      45 53 46 46 4F 0A51 1061 .WORD ^X1E
      D4 0A56 1062 .BYTE ^X87
      0A46' 0A57 1063 .ASCII /CONTEX/
      0946' 0A59 1064 OFST: .BYTE ^XD4
      001E 0A5B 1065 .WORD OFST-9
      0A5D 1066 .WORD USER
      87 0A5D 1067 .WORD ^X20
      58 45 54 4E 4F 43 0A5E 1068 .BYTE ^X87
      D4 0A64 1069 .ASCII /CURREN/
      0A50' 0A65 1070 .BYTE ^XD4
      0946' 0A67 1071 CNTX: .WORD OFST-9
      0020 0A69 1072 .WORD USER
      0A6R 1073 .WORD ^X20
      87 0A6B 1074 .BYTE ^X87
      44: 45 52 52 55 43 0A6C 1075 .ASCII /CURREN/
      D4 0A72 1076 .BYTE ^XD4
      0A50' 0A73 1077 .WORD CNTX-10
      0946' 0A75 1078 CRNT: .WORD USER
      0022 0A77 1079 .WORD ^X22
      0A79 1080 .BYTE ^X85
      85 0A79 1081 .ASCII /STAT/
      54 41 54 53 0A7A 1082 .WORD ^X85

```

;VOC-LINK
;VOCABULARY LINK

;BLK
;BLOCK NUMBER

;FIN
;VARIABLE WHICH CONTAINS THE BYTE OFF-
;SET IN INPUT TEXT BUFFER TO NEXT WORD

;FOUT
;VARIABLE WHICH IS INCREMENTED BY EMIT

;FSCR
;VARIABLE WHICH CONTAINS THE SCREEN
;NUMBER MOST RECENTLY USED BY LIST

;OFFSET
;VARIABLE WHICH CONTAINS BLOCK OFFSET
;TO DISC DRIVES. NOT USED HERE.

;CONTEX
;VARIABLE WHICH POINTS TO THE CURRENT
;VOCABULARY

;CURRENT
;

```

C5 0A7E 1083 .BYTE ^XC5
0A6B' 0A7F 1084 .WORD CRNT-10
0946' 0A81 1085 STT: .WORD USER
0024 0A83 1086 .WORD ^X24
      84 0A85 1087 .BYTE ^X84
53 41 42 0A86 1089 .ASCII /BAS/
      C5 0A89 1090 .BYTE ^XC5
      0A79' 0A8A 1091 .WORD STT-8
      0946' 0A8C 1092 BASE: .WORD USER
      0026 0A8E 1093 .WORD ^X26
      83 0A90 1094 .BYTE ^X83
      50 44 0A91 1096 .ASCII /DP/
      CC 0A93 1097 .BYTE ^XCC
      0A85' 0A94 1098 .WORD BASE-7
      0946' 0A96 1099 DPL: .WORD USER
      0028 0A98 1100 .WORD ^X28
      83 0A9A 1101 .BYTE ^X83
      4C 46 0A9B 1103 .ASCII /FL/
      C4 0A9D 1104 .BYTE ^XC4
      0A90' 0A9E 1105 .WORD DPL-6
      0946' 0AA0 1106 FLD: .WORD USER
      002A 0AA2 1107 .WORD ^X2A
      83 0AA4 1108 .BYTE ^X83
      53 43 0AA5 1110 .ASCII /CS/
      D0 0AA7 1111 .BYTE ^XD0
      0A9A' 0AA8 1112 .WORD FLD-6
      0946' 0AAA 1113 CSP: .WORD USER
      002C 0AAE 1114 .WORD ^X2C
      82 0AAF 1116 .BYTE ^X82
      52 0AAF 1117 .ASCII /R/
      A3 0AB0 1118 .BYTE ^XA3
      0AA4' 0AB1 1119 .WORD CSP-6
      0946' 0AB3 1120 RNU: .WORD USER
      002E 0AB5 1121 .WORD ^X2E
      83 0AB7 1122 .BYTE ^X83
      4C 48 0AB8 1124 .ASCII /HL/
      C4 0ABA 1125 .BYTE ^XC4
      0AAF' 0ABR 1126 .WORD RNU-5
      0946' 0ARD 1127 HLD: .WORD USER
      0030 0ABF 1128 .WORD ^X30
      82 0AC1 1129 .BYTE ^X82
      44 0AC2 1131 .ASCII /D/
      06 0AC3 1132 .BYTE ^XD6
      0AB7' 0AC4 1133 .WORD HLD-6
      0946' 0AC6 1134 DIS: .WORD USER
      0032 0ACR 1135 .WORD ^X32
      0ACA 1136 .WORD ^X32
      0ACA 1137 ?
      0ACA 1138 ?END OF USFR VARIABLES
      0ACA 1139 ?
    
```

```

82 OAC 1140 .BYTE ^X82
31 OACB 1141 .ASCII /1/
AR OACC 1142 .BYTE ^XAB
OAC1' OACD 1143 .WORD DIS=5
OAC1' OACF 1144 .WORD NEST
0961' OAD1 1145 PLUS1: .WORD ONE
06E7' OAD3 1146 .WORD PLUS
0616' OAD5 1147 .WORD SEMIS
OAD7 1148
OAD7 1149
82 OAD7 1150 .BYTE ^X82
32 OAD8 1151 .ASCII /2/
AB OAD9 1152 .BYTE ^XAB
OACA' OADA 1153 .WORD PLUS1=5
OAC1' OADC 1154 PLUS2: .WORD NEST
0969' OADE 1155 .WORD TWO
06E7' OAE0 1156 .WORD PLUS
0616' OAE2 1157 .WORD SEMIS
OAE4 1158
OAE4 1159
84 OAE4 1160 .BYTE ^X84
52 45 48 OAF5 1160 .ASCII /HER/
C5 OAF8 1161 .BYTE ^XC5
OAD7' OAE9 1162 .WORD PLUS2=5
OAC1' OAE8 1163 HERE: .WORD NEST
OAE1' OAE9 1164 .WORD DP
OAE1' OAE9 1165 .WORD AT
07D9' OAE9 1165 .WORD SEMIS
0616' OAF1 1166
OAF3 1167
85 OAF3 1168 .BYTE ^X85
4F 4C 41 OAF4 1169 .ASCII /ALLO/
D4 OAF8 1170 .BYTE ^XD4
OAE4' OAF9 1171 .WORD HER=7
OAC1' OAFB 1172 ALLOT: .WORD NEST
OAE1' OAFD 1173 .WORD DP
OAF3' OAFD 1174 .WORD PLUS
0616' OBF1 1175 .WORD SEMIS
OR03 1176
81 OR03 1177 .BYTE ^X81
AC OR04 1178 .BYTE ^XAC
OAF3' OR05 1179 .WORD ALLOT=8
OAC1' OR07 1180 COMMA: .WORD NEST
OAE1' OR09 1181 .WORD HERE
OR02' OR0B 1182 .WORD EX
OAE1' OR0D 1183 .WORD TWO
OAFR' OR0F 1184 .WORD ALLOT
0616' OR11 1185 .WORD SEMIS
OR13 1186
82 OR13 1187 .BYTE ^X82
43 OR14 1188 .ASCII /C/
AC OR15 1189 .BYTE ^XAC
OR03' OR16 1190 .WORD COMMA=4
OAC1' OR18 1191 CCMA: .WORD NEST
OAE1' OR1A 1192 .WORD HERE
OR1A' OR1C 1193 .WORD CFX
OAE1' OR1F 1194 .WORD ONE
OAFR' OR20 1195 .WORD ALLOT
0616' OR22 1196 .WORD SEMIS

```

!1+

!2+

!HERE

!ALLOT

! ,

!C,


```

0B24 1197      ^X81
      81 0R24 1198      ^XAD
      AD 0R25 1199      CCMA-5
      0R13' 0B26 1200      WORD NEST
      091C' 0B28 1201 MINS:  WORD NEST
      06FC' 0B2A 1202      WORD MINUS
      06E7' 0R2C 1203      WORD PLUS
      0616' 0B2E 1204      WORD SEMIS
      0R30 1205
      81 0B30 1206      ^X81
      BD 0B31 1207      ^X8D
      0R24' 0R32 1208      WORD MINS-4
      091C' 0B34 1209 EOL:  WORD NEST
      0B28' 0B36 1210      WORD MINS
      0681' 0B38 1211      WORD ZEQAL
      0616' 0B3A 1212      WORD SEMIS
      0B3C 1213
      81 0B3C 1214      ^X81
      BC 0B3D 1215      ^XBC
      0B30' 0B3E 1216      WORD EOL-4
      091C' 0R40 1217 LESS:  WORD NEST
      0B28' 0B42 1218      WORD MINS
      06C7' 0R44 1219      WORD ZLESS
      0616' 0B46 1220      WORD SEMIS
      0R48 1221
      81 0R48 1222      ^X81
      RE 0B49 1223      ^XBE
      0B3C' 0R4A 1224      WORD LESS-4
      091C' 0B4C 1225 GTR:  WORD NEST
      0775' 0B4E 1226      WORD SWAP
      0B40' 0B50 1227      WORD LESS
      0616' 0R52 1228      WORD SEMIS
      0R54 1229
      83 0R54 1230      ^X83
      4F 52 0R55 1231      /RO/
      D4 0R57 1232      ^XD4
      0R48' 0R58 1233      WORD GTR-4
      091C' 0R5A 1234 ROT:  WORD NEST
      0643' 0R5C 1235      WORD GR
      0775' 0B5E 1236      WORD SWAP
      0658' 0B60 1237      WORD RG
      0775' 0B62 1238      WORD SWAP
      0616' 0R64 1239      WORD SEMIS
      0R66 1240
      R5 0B66 1241      ^X85
      43 41 50 53 0R67 1242      /SPAC/
      C5 0R68 1243      ^XC5
      0B54' 0R6C 1244      WORD ROT-6
      091C' 0B6E 1245 SPC:  WORD NEST
      0972' 0R70 1246      WORD AL
      0B37' 0R72 1247      WORD FMIT
      0616' 0R74 1248      WORD SFMIS
      0R76 1249
      R4 0R76 1250      ^XR4
      55 44 2D 0R77 1251      /-DU/
      D0 0R7A 1252      ^XD0
      0R66' 0R7H 1253      WORD SPC-8

```

]-

] =

] <

] >

] ROT

] SPACE

```

091C' 0B7D 1254 MDUP: .WORD NEST ; -DUP
0791' 0B7F 1255 .WORD DUP
034C' 0B81 1256 .WORD ZBRCH
0B87' 0B83 1257 .WORD .+4
0791' 0B85 1258 .WORD DUP
0616' 0B87 1259 .WORD SEMIS
      0B89 1260
      88 0B89 1261 .BYTE ^X88
53 52 45 56 41 52 54 0B8A 1262 .ASCII /TRAVERS/
      C5 0B91 1263 .BYTE ^XC5
0B76' 0B92 1264 .WORD MDUP-7
091C' 0B94 1265 TRVS: .WORD NEST ; TRAVERSE
0775' 0B96 1266 .WORD SWAP
0758' 0B98 1267 TR1: .WORD OVER
06F7' 0B9A 1268 .WORD PLUS
0305' 0B9C 1269 .WORD LIT
007F' 0B9E 1270 .WORD ^X7F
0758' 0BA0 1271 .WORD OVER
07EE' 0BA2 1272 .WORD CAT
0B40' 0BA4 1273 .WORD LESS
034C' 0BA6 1274 .WORD ZBRCH
0B98' 0BA8 1275 .WORD TR1
0775' 0BAA 1276 .WORD SWAP
0744' 0BAC 1277 .WORD DROP
0616' 0BAE 1278 .WORD SEMIS
      0BB0 1279
      86 0BB0 1280 .BYTE ^X86
53 45 54 41 4C 0BB1 1281 .ASCII /LATES/
      D4 0BB6 1282 .BYTE ^XD4
0B89' 0BB7 1283 .WORD TRVS-11
091C' 0BB9 1284 LTST: .WORD NEST ; LATEST
0A75' 0BBB 1285 .WORD CRNT
07D9' 0BBD 1286 .WORD AT
07D9' 0BBF 1287 .WORD AT
0616' 0BC1 1288 .WORD SEMIS
      0BC3 1289
      83 0BC3 1290 .BYTE ^X83
46 4C 0BC4 1291 .ASCII /LF/
      C1 0BC6 1292 .BYTE ^XC1
0B80' 0BC7 1293 .WORD LTST-9
091C' 0BC9 1294 LFA: .WORD NEST ; LFA
0305' 0BCB 1295 .WORD LIT
0004 0BCD 1296 .WORD 4
0B2R' 0BCF 1297 .WORD MINS
0616' 0BD1 1298 .WORD SEMIS
      0BD3 1299
      83 0BD3 1300 .BYTE ^X83
46 43 0BD4 1301 .ASCII /CF/
      C1 0BD6 1302 .BYTE ^XC1
0BC3' 0BD7 1303 .WORD LFA-6
091C' 0BD9 1304 CFA: .WORD NEST ; CFA
0969' 0BDH 1305 .WORD TWO
0B28' 0BDD 1306 .WORD MINS
0616' 0BDF 1307 .WORD SEMIS
      0BE1 1308
      83 0BE1 1309 .BYTE ^X83
46 4E 0BE2 1310 .ASCII /NF/

```

	C1	OBE4	1311		.BYTE	^XC1	
	ORD3'	OBE5	1312		.WORD	CFA-6	
	091C'	OBE7	1313	NFA:	.WORD	NEST	;NFA
	0305'	OBE9	1314		.WORD	LIT	
	0005	OBE8	1315		.WORD	5	
	OR28'	OBED	1316		.WORD	MINS	
	0305'	OBED	1317		.WORD	LIT	
	FFFF'	OBF1	1318		.WORD	^XFFF	
	OB94'	OBF3	1319		.WORD	TRVS	
	0616'	ORF5	1320		.WORD	SEMIS	
		ORF7	1321				
	83	ORF7	1322		.BYTE	^X83	
46	50	ORF8	1323		.ASCII	/PF/	
	C1	OBFA	1324		.BYTE	^XC1	
	0BE1'	OBFB	1325		.WORD	NFA-6	
	091C'	OBFD	1326	PFA:	.WORD	NEST	;PFA
	0961'	OBFF	1327		.WORD	ONE	
	OB94'	OC01	1328		.WORD	TRVS	
	0305'	OC03	1329		.WORD	LIT	
	0005	OC05	1330		.WORD	5	
	06E7'	OC07	1331		.WORD	PLUS	
	0616'	OC09	1332		.WORD	SEMIS	
		OC0B	1333				
	84	OC0B	1334		.BYTE	^X84	
53	43	21	OC0C	1335	.ASCII	/ICS/	
	D0	OC0F	1336		.BYTE	^XD0	
	ORF7'	OC10	1337		.WORD	PFA-6	
	091C'	OC12	1338	DCSP:	.WORD	NEST	;ICSP
	05CF'	OC14	1339		.WORD	FSPAT	
	0AAA'	OC16	1340		.WORD	CSP	
	0802'	OC18	1341		.WORD	EX	
	0616'	OC1A	1342		.WORD	SEMIS	
		OC1C	1343				
	86	OC1C	1344		.BYTE	^X86	
4F	52	52	45	3F	OC1D	1345	
	D2	OC22	1346		.BYTE	^XD2	
	OC0B'	OC23	1347		.WORD	DCSP-7	
	091C'	OC25	1348	QERR:	.WORD	NEST	;?ERROR
	0775'	OC27	1349		.WORD	SWAP	
	034C'	OC29	1350		.WORD	ZBRCH	
	0C33'	OC2B	1351		.WORD	.+8	
	1058'	OC2D	1352		.WORD	ERROR	
	0335'	OC2F	1353		.WORD	BRCH	
	0C35'	OC31	1354		.WORD	.+4	
	0744'	OC33	1355		.WORD	DROP	
	0616'	OC35	1356		.WORD	SEMIS	
		OC37	1357				
	85	OC37	1358		.BYTE	^X85	
4D	4F	43	3F	OC38	1359	.ASCII	/?COM/
	D0	OC3C	1360		.BYTE	^XD0	
	OC1C'	OC3D	1361		.WORD	QERR-9	
	091C'	OC3F	1362	QCOMP:	.WORD	NEST	;?COMP
	0AR1'	OC41	1363		.WORD	STT	
	07D9'	OC43	1364		.WORD	AT	
	0681'	OC45	1365		.WORD	ZEQUAL	
	0305'	OC47	1366		.WORD	LIT	
	0011	OC49	1367		.WORD	^X11	

```

0C25' 0C4B 1368
0616' 0C4D 1369
      0C4F 1370
      85 0C4F 1371
      C3 0C54 1372
      0C37' 0C55 1374
091C' 0C57 1375 EXC:
0A81' 0C59 1376
07D9' 0C5R 1377
0305' 0C5D 1378
0012 0C5F 1379
0C25' 0C61 1380
0616' 0C63 1381
      0C65 1382
      86 0C65 1383
52 49 41 50 3F 0C66 1384
      D3 0C68 1385
      0C4F' 0C6C 1386
094C' 0C6E 1387 QPR:
0B28' 0C70 1388
0305' 0C72 1389
0013 0C74 1390
0C25' 0C76 1391
0616' 0C78 1392
      0C7A 1393
      84 0C7A 1394
53 43 3F 0C7B 1395
      D0 0C7E 1396
      0C65' 0C7F 1397
091C' 0C81 1398 QCSP:
05CF' 0C83 1399
      0AAA' 0C85 1400
      07D9' 0C87 1401
      0B28' 0C89 1402
      0305' 0C8B 1403
      0014 0C8D 1404
0C25' 0C8F 1405
0616' 0C91 1406
      0C93 1407
      88 0C93 1408
4E 49 44 41 4F 4C 3F 0C94 1409
      C7 0C9B 1410
      0C7A' 0C9C 1411
091C' 0C9E 1412 QLDG:
0A2F' 0CA0 1413
      07D9' 0CA2 1414
      0681' 0CA4 1415
      0305' 0CA6 1416
      0014 0CA8 1417
0C25' 0CAA 1418
0616' 0CAC 1419
      0CAE 1420
      87 0CAF 1421
4C 49 50 4D 4F 43 0CAF 1422
      C5 0CR5 1423
      0C93' 0CR6 1424

```

```

.WORD QERR
.WORD SEMIS
.BYTE ^X85
.ASCII /?EXE/
.BYTE ^XC3
.WORD QCMP-8
.WORD NEST
.WORD SIT
.WORD AT
.WORD LIT
.WORD ^X12
.WORD QERR
.WORD SEMIS
.BYTE ^X86
.ASCII /?PAIR/
.BYTE ^XD3
.WORD FXC-8
.WORD NEST
.WORD MINS
.WORD LIT
.WORD ^X13
.WORD QERR
.WORD SEMIS
.BYTE ^X84
.ASCII /?CS/
.BYTE ^XDO
.WORD QPR-9
.WORD NEST
.WORD FSPAT
.WORD CSP
.WORD AT
.WORD MINS
.WORD LIT
.WORD ^X14
.WORD QERR
.WORD SEMIS
.BYTE ^X88
.ASCII /?LOADIN/
.BYTE ^XC7
.WORD QCSP-7
.WORD NEST
.WORD BLK
.WORD AT
.WORD ZEQAL
.WORD LIT
.WORD ^X14
.WORD QERR
.WORD SEMIS
.BYTE ^X87
.ASCII /?COMPI/
.BYTE ^XC5
.WORD QLDG-11

```

/?EXEC

/?PAIRS

/?CSP

/?LOADING

```

091C' 0CB8 1425 Cmpl: .WORD NEST ;COMPILE
0C3F' 0CBA 1426 .WORD QCMP
0658' 0CBC 1427 .WORD RG
0791' 0CBE 1428 .WORD DUP
0ADC' 0CC0 1429 .WORD PLUS2
0643' 0CC2 1430 .WORD GR
07D9' 0CC4 1431 .WORD AT
0B07' 0CC6 1432 .WORD COMMA
0616' 0CC8 1433 .WORD SEMIS
      OCCA 1434
      C1 OCCA 1435 .BYTE ^XC1
      DB OCCB 1436 .BYTE ^XDB ;[
0CAE' 0CCC 1437 .WORD Cmpl-10
091C' 0CCE 1438 LB: .WORD NEST
0959' 0CD0 1439 .WORD ZERO
0A81' 0CD2 1440 .WORD STT
0802' 0CD4 1441 .WORD EX
0616' 0CD6 1442 .WORD SEMIS
      OCD8 1443
      81 OCD8 1444 .BYTE ^X81
      DD OCD9 1445 .BYTE ^XDD ;]
OCCA' 0CDA 1446 .WORD LR-4
091C' 0CDC 1447 RB: .WORD NEST
0305' 0CDE 1448 .WORD LIT
0QC0' 0CE0 1449 .WORD ^XC0
0A81' 0CE2 1450 .WORD STT
0802' 0CE4 1451 .WORD EX
0616' 0CE6 1452 .WORD SEMIS
      OCE8 1453
      86 OCE8 1454 .BYTE ^X86
47 44 55 4D 53 OCE9 1455 .ASCII /SMUDGE/ ;SMUDGE
      C5 OCEE 1456 .BYTE ^XC5
OCD8' 0CEF 1457 .WORD RB-4
091C' 0CF1 1458 SMDG: .WORD NEST
0BB9' 0CF3 1459 .WORD LTST
0305' 0CF5 1460 .WORD LIT
0020' 0CF7 1461 .WORD ^X20
07BF' 0CF9 1462 .WORD TGLE
0616' 0CFB 1463 .WORD SEMIS
      OCFD 1464
      83 OCFD 1465 .BYTE ^X83
45 48 OCFE 1466 .ASCII /HE/ ;HEX
      D8 OD00 1467 .BYTE ^XD8
OCE8' OD01 1468 .WORD SMDG-9
091C' OD03 1469 MHEX: .WORD NEST
0305' OD05 1470 .WORD LIT
0010' OD07 1471 .WORD ^X10
0A8C' OD09 1472 .WORD BASE
0802' OD0B 1473 .WORD EX
0616' OD0D 1474 .WORD SEMIS
      OD0F 1475
      87 OD0F 1476 .BYTE ^X87
41 4D 49 43 45 44 OD10 1477 .ASCII /DECIMA/ ;DECIMAL
      CC OD16 1478 .BYTE ^XCC
OCFD' OD17 1479 .WORD MHEX-6
091C' OD19 1480 MDCML: .WORD NEST
0305' OD1B 1481 .WORD LIT
    
```

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000A 0D1D 1482 .WORD ^X0A
0A8C' 0D1F 1483 .WORD BASE
0802' 0D21 1484 .WORD EX
0616' 0D23 1485 .WORD SEMIS
      0D25 1486
      87 0D25 1487 .BYTE ^X87
45 44 4F 43 3B 28 0D26 1488 .ASCII /(;CODE/ ;(;CODE)
      A9 0D2C 1489 .BYTE ^XA9
0D0F' 0D2D 1490 .WORD MDCML-10
091C' 0D2F 1491 PCODE: .WORD NEST
0658' 0D31 1492 .WORD RG
08B9' 0D33 1493 .WORD LTST
0BFD' 0D35 1494 .WORD PFA
0BD9' 0D37 1495 .WORD CFA
0802' 0D39 1496 .WORD EX
0616' 0D3B 1497 .WORD SEMIS
      0D3D 1498
      C5 0D3D 1499 .BYTE ^XC5
44 4F 43 3B 0D3E 1500 .ASCII /;COD/ ;;CODE
      C5 0D42 1501 .BYTE ^XC5 ; IMMEDIATE
0D25' 0D43 1502 .WORD PCODE-10
091C' 0D45 1503 CODE: .WORD NEST
0C81' 0D47 1504 .WORD QCSP
0CB8' 0D49 1505 .WORD CMPL
0D2F' 0D4B 1506 .WORD PCODE
0CCE' 0D4D 1507 .WORD LB
0CF1' 0D4F 1508 .WORD SMDG
0616' 0D51 1509 .WORD SEMIS
      0D53 1510
      85 0D53 1511 .BYTE ^X85
4E 55 4F 43 0D54 1512 .ASCII /COUN/ ; COUNT
      D4 0D58 1513 .BYTE ^XD4
0D3D' 0D59 1514 .WORD CODE-8
091C' 0D5B 1515 CNT: .WORD NEST
0791' 0D5D 1516 .WORD DUP
0ACF' 0D5F 1517 .WORD PLUS1
0775' 0D61 1518 .WORD SWAP
07EE' 0D63 1519 .WORD CAT
0616' 0D65 1520 .WORD SEMIS
      0D67 1521
      84 0D67 1522 .BYTE ^X84
50 59 54 0D68 1523 .ASCII /TYP/ ;TYPE
      C5 0D6B 1524 .BYTE ^XC5
0D53' 0D6C 1525 .WORD CNT-8
091C' 0D6E 1526 TYPE: .WORD NEST
087D' 0D70 1527 .WORD MDUP
034C' 0D72 1528 .WORD ZBRCH
0D8C' 0D74 1529 .WORD .+24
0758' 0D76 1530 .WORD OVER
06E7' 0D78 1531 .WORD PLUS
0775' 0D7A 1532 .WORD SWAP
03F8' 0D7C 1533 .WORD PDO
066C' 0D7E 1534 TYP1: .WORD R
07EE' 0D80 1535 .WORD CAT
0837' 0D82 1536 .WORD EMIT
0377' 0D84 1537 .WORD LUPF
0D7E' 0D86 1538 .WORD TYP1

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	0335'	0D88	1539	.WORD	BRCH	
	0D8E'	0D8A	1540	.WORD	.,+4	
	0744'	0D8C	1541	.WORD	DROP	
	0616'	0D8E	1542	.WORD	SEMIS	
		0D90	1543			
	89	0D90	1544	.BYTE	^X89	
4E 49 4C 49 41 52 54 2D	0D91	1545	.ASCII	/-TRAILIN/		; -TRAILING
	C7	0D99	1546	.BYTE	^XC7	
	0D67'	0D9A	1547	.WORD	TYPE-7	
	091C'	0D9C	1548	TRLG:	.WORD	NEST
	0791'	0D9E	1549	.WORD	DUP	
	0959'	0DA0	1550	.WORD	ZERO	
	03F8'	0DA2	1551	.WORD	PDO	
	0758'	0DA4	1552	TRL1:	.WORD	OVER
	0758'	0DA6	1553	.WORD	OVER	
	06E7'	0DA8	1554	.WORD	PLUS	
	0961'	0DAA	1555	.WORD	ONE	
	0B28'	0DAC	1556	.WORD	MINS	
	07EF'	0DAE	1557	.WORD	CAT	
	0972'	0DB0	1558	.WORD	BL	
	0B28'	0DB2	1559	.WORD	MINS	
	034C'	0DB4	1560	.WORD	ZBRCH	
	0D8E'	0DB6	1561	.WORD	.,+8	
	062B'	0DB8	1562	.WORD	LVE	
	0335'	0DBA	1563	.WORD	BRCH	
	0DC2'	0DBC	1564	.WORD	.,+6	
	0961'	0DBE	1565	.WORD	ONE	
	0B28'	0DC0	1566	.WORD	MINS	
	0377'	0DC2	1567	.WORD	LUPE	
	0DA4'	0DC4	1568	.WORD	TRL1	
	0616'	0DC6	1569	.WORD	SEMIS	
		0DC8	1570			
	84	0DC8	1571	.BYTE	^X84	
22 2E 28	0DC9	1572	.ASCII	/(."/		; (,")
	A9	0DCC	1573	.BYTE	^XA9	
	0D90'	0DCD	1574	.WORD	TRLG-12	
	091C'	0DCF	1575	PDQ:	.WORD	NEST
	066C'	0DD1	1576	.WORD	R	
	0D5B'	0DD3	1577	.WORD	CNT	
	0791'	0DD5	1578	.WORD	DUP	
	0ACF'	0DD7	1579	.WORD	PLUS1	
	0658'	0DD9	1580	.WORD	RG	
	06E7'	0DDB	1581	.WORD	PLUS	
	0643'	0DDD	1582	.WORD	GR	
	0D6E'	0DDF	1583	.WORD	TYPE	
	0616'	0DE1	1584	.WORD	SEMIS	
		0DE3	1585			
	86	0DE3	1586	.BYTE	^X86	
43 45 50 58 45	0DE4	1587	.ASCII	/EXPEC/		; EXPECT
	D4	0DE9	1588	.BYTE	^XD4	
	0DC8'	0DEA	1589	.WORD	PDQ-7	
	091C'	0DEC	1590	EXPT:	.WORD	NEST
	0758'	0DEE	1591	.WORD	OVER	
	06E7'	0DF0	1592	.WORD	PLUS	
	0758'	0DF2	1593	.WORD	OVER	
	03F8'	0DF4	1594	.WORD	PDO	
	0884'	0DF6	1595	EXPT4:	.WORD	KEY

0791'	ODF8	1596		.WORD	DUP
0305'	ODFA	1597		.WORD	LIT
000E	ODFC	1598		.WORD	^X0E
09C7'	ODFE	1599		.WORD	PORGN
07D9'	OE00	1600		.WORD	AT
0B34'	OE02	1601		.WORD	EQL
034C'	OE04	1602		.WORD	ZBRCH
0E32'	OE06	1603		.WORD	EXPT1
0744'	OE08	1604		.WORD	DROP
0305'	OE0A	1605		.WORD	LIT
0008	OE0C	1606		.WORD	8
0758'	OE0E	1607		.WORD	OVER
066C'	OE10	1608		.WORD	R
0B34'	OE12	1609		.WORD	EQL
0791'	OE14	1610		.WORD	DUP
0658'	OE16	1611		.WORD	RG
0969'	OE18	1612		.WORD	TWO
0B28'	OE1A	1613		.WORD	MINS
06E7'	OE1C	1614		.WORD	PLUS
0643'	OE1E	1615		.WORD	GR
0B28'	OE20	1616		.WORD	MINS
0837'	OE22	1617		.WORD	EMIT
0305'	OE24	1618		.WORD	LIT
0020	OE26	1619		.WORD	^X20
0837'	OE28	1620		.WORD	EMIT
0305'	OE2A	1621		.WORD	LIT
0008	OE2C	1622		.WORD	^X08
0335'	OE2E	1623		.WORD	BRCH
0E58'	OE30	1624		.WORD	EXPT2
0791'	OE32	1625	EXPT1:	.WORD	DUP
0305'	OE34	1626		.WORD	LIT
000D	OE36	1627		.WORD	^X0D
0B34'	OE38	1628		.WORD	EQL
034C'	OE3A	1629		.WORD	ZBRCH
0E4A'	OE3C	1630		.WORD	EXPT3
062B'	OE3E	1631		.WORD	LVE
0744'	OE40	1632		.WORD	DROP
0972'	OE42	1633		.WORD	BL
0959'	OE44	1634		.WORD	ZERO
0335'	OE46	1635		.WORD	BRCH
0E4C'	OE48	1636		.WORD	EXPT5
0791'	OE4A	1637	EXPT3:	.WORD	DUP
066C'	OE4C	1638	EXPT5:	.WORD	R
0B1A'	OE4E	1639		.WORD	CEX
0959'	OE50	1640		.WORD	ZERO
066C'	OE52	1641		.WORD	R
0ACF'	OE54	1642		.WORD	PLUS1
0802'	OE56	1643		.WORD	EX
0837'	OE58	1644	EXPT2:	.WORD	EMIT
0377'	OE5A	1645		.WORD	LUPE
0DF6'	OE5C	1646		.WORD	EXPT4
0744'	OE5E	1647		.WORD	DROP
0616'	OE60	1648		.WORD	SEMIS
	OE62	1649			
	85	OE62		.BYTE	^X85
52 45 55 51	OE63	1651		.ASCII	/QUER/
	D9	OE67		.BYTE	^XD9

;QUERY

0DE3'	0E68	1653		.WORD	EXPT-9	
091C'	0E6A	1654	QUER:	.WORD	NEST	
09E7'	0E6C	1655		.WORD	TIB	
07D9'	0E6E	1656		.WORD	AT	
0305'	0E70	1657		.WORD	LIT	
0050	0E72	1658		.WORD	^X50	
0DEC'	0E74	1659		.WORD	EXPT	
0959'	0E76	1660		.WORD	ZERO	
0A38'	0E78	1661		.WORD	FIN	
0802'	0E7A	1662		.WORD	EX	
0616'	0E7C	1663		.WORD	SEMIS	
	0E7E	1664				
	C1	0E7E		.BYTE	^XC1	
	80	0E7F		.BYTE	^X80	
0E62'	0E80	1667		.WORD	QUER-8	;X ASCII NULL
091C'	0E82	1668	X:	.WORD	NEST	; IMMEDIATE
0A2F'	0E84	1669		.WORD	BLK	
07D9'	0E86	1670		.WORD	AT	
034C'	0E88	1671		.WORD	ZBRCH	
0EB2'	0E8A	1672		.WORD	X2	
0961'	0E8C	1673		.WORD	ONE	
0A2F'	0E8E	1674		.WORD	BLK	
07A3'	0E90	1675		.WORD	PLUSS	
0959'	0E92	1676		.WORD	ZERO	
0A38'	0E94	1677		.WORD	FIN	
0802'	0E96	1678		.WORD	EX	
0A2F'	0E98	1679		.WORD	BLK	
07D9'	0E9A	1680		.WORD	AT	
0305'	0E9C	1681		.WORD	LIT	
0007	0E9E	1682		.WORD	7	
0594'	0EA0	1683		.WORD	FAND	
0681'	0EA2	1684		.WORD	ZEQAL	
034C'	0EA4	1685		.WORD	ZBRCH	
0EAE'	0EA6	1686		.WORD	X1	
0C57'	0EA8	1687		.WORD	EXC	
0658'	0EAA	1688		.WORD	RG	
0744'	0EAC	1689		.WORD	DROP	
0335'	0EAE	1690	X1:	.WORD	BRCH	
0EB6'	0EB0	1691		.WORD	XEND	
0658'	0EB2	1692	X2:	.WORD	RG	
0744'	0EB4	1693		.WORD	DROP	
0616'	0EB6	1694	XEND:	.WORD	SEMIS	
	0EB8	1695				
	84	0EB8		.BYTE	^X84	
4C 49 46	0EB9	1697		.ASCII	/FIL/	;FILL
	CC	0EBC		.BYTE	^XCC	; FILL MEMORY
0E7E'	0EBD	1699		.WORD	X-4	
091C'	0EBF	1700	FILL:	.WORD	NEST	
0775'	0EC1	1701		.WORD	SWAP	
0643'	0EC3	1702		.WORD	GR	
0758'	0EC5	1703		.WORD	OVER	
081A'	0EC7	1704		.WORD	CFX	
0791'	0EC9	1705		.WORD	DUP	
0ACF'	0ECB	1706		.WORD	PLUS1	
0658'	0ECD	1707		.WORD	RG	
0961'	0ECF	1708		.WORD	ONE	
0B28'	0ED1	1709		.WORD	MINS	

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052E' OED3 1710 .WORD CMOVE
0616' OED5 1711 .WORD SEMIS
      OED7 1712
53 41 85 OED7 1713 .BYTE ^X85
52 45 OED8 1714 .ASCII /ERAS/ ;ERASE
      C5 OEDC 1715 .BYTE ^XC5 ; ZERO MEMORY
0ER8' OEDD 1716 .WORD FILL-7
091C' OEDF 1717 ERS: .WORD NEST
0959' OEE1 1718 .WORD ZERO
0EBF' OEE3 1719 .WORD FILL
0616' OEE5 1720 .WORD SEMIS
      OEE7 1721
4B 4E 86 OEE7 1722 .BYTE ^X86
41 4C OEE8 1723 .ASCII /BLANK/ ;BLANKS
      D3 OEED 1724 .BYTE ^XD3 ; FILL MEMORY WITH BLANKS
0ED7' OEEE 1725 .WORD ERS-8
091C' OEF0 1726 BLNK: .WORD NEST
0972' OEF2 1727 .WORD BL
0FBF' OEF4 1728 .WORD FILL
0616' OEF6 1729 .WORD SEMIS
      OEF8 1730
4C 4F 84 OEF8 1731 .BYTE ^X84
48 OEF9 1732 .ASCII /HOL/ ;HOLD
      C4 OEFc 1733 .BYTE ^XC4
0EE7' OEFD 1734 .WORD BLNK-9
091C' OEFF 1735 HOLD: .WORD NEST
0305' OF01 1736 .WORD LIT
FFFF' OF03 1737 .WORD ^XFFFF ; -1
0ARD' OF05 1738 .WORD HLD
07A3' OF07 1739 .WORD PLUS
0ARD' OF09 1740 .WORD HLD
07D9' OF0B 1741 .WORD AT
081A' OF0D 1742 .WORD CEX
0616' OF0F 1743 .WORD SEMIS
      OF11 1744
83 OF11 1745 .BYTE ^X83
41 50 OF12 1746 .ASCII /PA/ ;PAD
      C4 OF14 1747 .BYTE ^XC4
0EF8' OF15 1748 .WORD HOLD-7
091C' OF17 1749 PAD: .WORD NEST
0AEB' OF19 1750 .WORD HERE
0305' OF1B 1751 .WORD LIT
0044 OF1D 1752 .WORD ^X44
06E7' OF1F 1753 .WORD PLUS
0616' OF21 1754 .WORD SEMIS
      OF23 1755
84 OF23 1756 .BYTE ^X84
52 4F 57 OF24 1757 .ASCII /WOR/ ;WORD
      C4 OF27 1758 .BYTE ^XC4
OF11' OF28 1759 .WORD PAD-6
091C' OF2A 1760 WORD: .WORD NEST
0A2F' OF2C 1761 .WORD BLK
07D9' OF2E 1762 .WORD AT
034C' OF30 1763 .WORD ZBRCH
0F3E' OF32 1764 .WORD WD1
0A2F' OF34 1765 .WORD BLK
07D9' OF36 1766 .WORD AT

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	1A81'	0F38	1767		.WORD	BLOCK	
	0335'	0F3A	1768		.WORD	BRCH	
	0F42'	0F3C	1769		.WORD	WD2	
	09E7'	0F3E	1770	WD1:	.WORD	TIB	
	07D9'	0F40	1771		.WORD	AT	
	0A38'	0F42	1772	WD2:	.WORD	FIN	
	07D9'	0F44	1773		.WORD	AT	
	06E7'	0F46	1774		.WORD	PLUS	
	0775'	0F48	1775		.WORD	SWAP	
	04C8'	0F4A	1776		.WORD	ENCL	
	0AEB'	0F4C	1777		.WORD	HERE	
	0305'	0F4E	1778		.WORD	LIT	
	0022	0F50	1779		.WORD	^X22	
	0EF0'	0F52	1780		.WORD	BLNK	
	0A38'	0F54	1781		.WORD	FIN	
	07A3'	0F56	1782		.WORD	PLUSS	
	0758'	0F58	1783		.WORD	OVER	
	0B28'	0F5A	1784		.WORD	MINS	
	0643'	0F5C	1785		.WORD	GR	
	066C'	0F5E	1786		.WORD	R	
	0AEB'	0F60	1787		.WORD	HERE	
	081A'	0F62	1788		.WORD	CEX	
	06E7'	0F64	1789		.WORD	PLUS	
	0AEB'	0F66	1790		.WORD	HERE	
	0ACF'	0F68	1791		.WORD	PLUS1	
	0658'	0F6A	1792		.WORD	RG	
	052E'	0F6C	1793		.WORD	CHOVE	
	0616'	0F6E	1794		.WORD	SEMIS	
		0F70	1795				
	88	0F70	1796		.BYTE	^X88	
52 45 42 4D 55 4E 28	0F71	1797			.ASCII	/(NUMBER/	; (NUMBER)
	A9	0F78	1798		.BYTE	^XA9	
	0F23'	0F79	1799		.WORD	WORD-7	
	091C'	0F7B	1800	PNMBR:	.WORD	NEST	
	0ACF'	0F7D	1801		.WORD	PLUS1	
	0791'	0F7F	1802		.WORD	DUP	
	0643'	0F81	1803		.WORD	GR	
	07EE'	0F83	1804		.WORD	CAT	
	0A8C'	0F85	1805		.WORD	BASE	
	07D9'	0F87	1806		.WORD	AT	
	0416'	0F89	1807		.WORD	DGT	
	034C'	0F8B	1808		.WORD	ZBRCH	
	0FB9'	0F8D	1809		.WORD	PNM2	
	0775'	0F8F	1810		.WORD	SWAP	
	0A8C'	0F91	1811		.WORD	BASE	
	07D9'	0F93	1812		.WORD	AT	
	054F'	0F95	1813		.WORD	USTAR	
	0744'	0F97	1814		.WORD	DROP	
	0B5A'	0F99	1815		.WORD	ROT	
	0A8C'	0F9B	1816		.WORD	BASE	
	07D9'	0F9D	1817		.WORD	AT	
	054F'	0F9F	1818		.WORD	USTAR	
	070E'	0FA1	1819		.WORD	DPLUS	
	0A96'	0FA3	1820		.WORD	DPL	
	07D9'	0FA5	1821		.WORD	AT	
	0ACF'	0FA7	1822		.WORD	PLUS1	
	034C'	0FA9	1823		.WORD	ZBRCH	

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0FB3' OFAB 1824 .WORD PNM1
0961' OFAD 1825 .WORD ONE
0A96' OFAF 1826 .WORD DPL
07A3' OFB1 1827 .WORD PLUSS
0658' OFB3 1828 PNM1: .WORD RG
0335' OFB5 1829 .WORD BRCH
0F7D' OFB7 1830 .WORD PNMNR+2
0658' OFB9 1831 PNM2: .WORD RG
0616' OFBB 1832 .WORD SEMIS
      OFBD 1833
      86 OFBD 1834 .BYTE ^X86
45 42 4D 55 4E OFBE 1835 .ASCII /NUMBE/ ;NUMBER
      D2 OFC3 1836 .BYTE ^XD2
0F70' OFC4 1837 .WORD PNMNR-11
091C' OFC6 1838 NMR1: .WORD NEST
0959' OFC8 1839 .WORD ZERO
0959' OFCA 1840 .WORD ZERO
0B5A' OFCC 1841 .WORD ROT
0791' OFCE 1842 .WORD DUP
0ACF' OFD0 1843 .WORD PLUS1
07EE' OFD2 1844 .WORD CAT
0305' OFD4 1845 .WORD LIT
002D OFD6 1846 .WORD ^X2D
0B34' OFD8 1847 .WORD EQL
0791' OFDA 1848 .WORD DUP
0643' OFDC 1849 .WORD GR
06E7' OFDE 1850 .WORD PLUS
0305' OFE0 1851 .WORD LIT
FFFF' OFE2 1852 .WORD ^XFFFF
0A96' OFE4 1853 NMB1: .WORD DPL
0802' OFE6 1854 .WORD EX
0F7B' OFE8 1855 .WORD PNMNR
0791' OFEA 1856 .WORD DUP
07EE' OFEC 1857 .WORD CAT
0972' OFEE 1858 .WORD BL
0B28' OFF0 1859 .WORD MINS
034C' OFF2 1860 .WORD ZBRCH
100A' OFF4 1861 .WORD NMB2
0791' OFF6 1862 .WORD DUP
07EE' OFF8 1863 .WORD CAT
0305' OFFA 1864 .WORD LIT
002E OFFC 1865 .WORD ^X2E
0B28' OFFE 1866 .WORD MINS
0959' 1000 1867 .WORD ZERO
0C25' 1002 1868 .WORD OERR
0959' 1004 1869 .WORD ZERO
0335' 1006 1870 .WORD BRCH
OFF4' 1008 1871 .WORD NMB1
0744' 100A 1872 NMR2: .WORD DROP
0658' 100C 1873 .WORD RG
034C' 100E 1874 .WORD ZBRCH
1014' 1010 1875 .WORD NMB3
072A' 1012 1876 .WORD DMIN
0616' 1014 1877 NMR3: .WORD SEMIS
      1016 1878
      85 1016 1879 .BYTE ^X85
4F 49 46 2D 1017 1880 .ASCII /-FIN/ ;-FIND

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1050'	1086	1938		.WORD	ERROR=8	
091C'	1088	1939	MIN:	.WORD	NEST	
0758'	108A	1940		.WORD	OVER	
0758'	108C	1941		.WORD	OVER	
0B4C'	108E	1942		.WORD	GTR	
034C'	1090	1943		.WORD	ZBRCH	
1096'	1092	1944		.WORD	MN1	
0775'	1094	1945		.WORD	SWAP	
0744'	1096	1946	MN1:	.WORD	DROP	
0616'	1098	1947		.WORD	SEMIS	
	109A	1948				
	83	109A		.BYTE	^X83	
44 49	109B	1950		.ASCII	/ID/	;ID.
	AE	109D		.BYTE	^XAE	
1082'	109E	1952		.WORD	MIN-6	
091C'	10A0	1953	ID:	.WORD	NEST	
0F17'	10A2	1954		.WORD	PAD	
0305'	10A4	1955		.WORD	LIT	
0020	10A6	1956		.WORD	^X20	
0305'	10A8	1957		.WORD	LIT	
005F	10AA	1958		.WORD	^X5F	
0EBF'	10AC	1959		.WORD	FILL	
0791'	10AE	1960		.WORD	DUP	
0BFD'	10B0	1961		.WORD	PFA	
0BC9'	10B2	1962		.WORD	LFA	
0758'	10B4	1963		.WORD	OVER	
0B28'	10B6	1964		.WORD	MINS	
0F17'	10B8	1965		.WORD	PAD	
0775'	10BA	1966		.WORD	SWAP	
052E'	10BC	1967		.WORD	CMOVE	
0F17'	10BE	1968		.WORD	PAD	
0D5B'	10C0	1969		.WORD	CNT	
0305'	10C2	1970		.WORD	LIT	
001F	10C4	1971		.WORD	^X1F	
0594'	10C6	1972		.WORD	FAND	
0D6E'	10C8	1973		.WORD	TYPE	
0B6E'	10CA	1974		.WORD	SPC	
0616'	10CC	1975		.WORD	SEMIS	
	10CE	1976				
	86	10CE		.BYTE	^X86	
54 41 45 52 43	10CF	1978		.ASCII	/CREAT/	;CREATE
	C5	10D4		.BYTE	^XC5	
109A'	10D5	1980		.WORD	ID-6	
091C'	10D7	1981	CRTE:	.WORD	NEST	
05CF'	10D9	1982		.WORD	FSPAT	
0AEB'	10DB	1983		.WORD	HERE	
0305'	10DD	1984		.WORD	LIT	
00A0	10DF	1985		.WORD	^XA0	
06E7'	10E1	1986		.WORD	PLUS	
0B40'	10E3	1987		.WORD	LESS	
0969'	10E5	1988		.WORD	TWO	
0C25'	10E7	1989		.WORD	QERR	
101E'	10E9	1990		.WORD	MFIND	
034C'	10EB	1991		.WORD	ZBRCH	
10FD'	10ED	1992		.WORD	CRT1	
0744'	10EF	1993		.WORD	DROP	
0BE7'	10F1	1994		.WORD	NFA	


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10A0' 10F3 1995      .WORD  ID
0305' 10F5 1996      .WORD  LIT
0004' 10F7 1997      .WORD  4
1920' 10F9 1998      .WORD  MSG
0B6E' 10FB 1999      .WORD  SPC
0AEB' 10FD 2000      .WORD  HERE
0791' 10FF 2001      .WORD  DUP
07EE' 1101 2002      .WORD  CAT
09F3' 1103 2003      .WORD  WIDTH
07D9' 1105 2004      .WORD  AT
1088' 1107 2005      .WORD  MIN
0ACF' 1109 2006      .WORD  PLUS1
0AFB' 110B 2007      .WORD  ALLOT
0791' 110D 2008      .WORD  DUP
0305' 110F 2009      .WORD  LIT
00A0 1111 2010      .WORD  ^XAO
07BF' 1113 2011      .WORD  TGLE
0AEB' 1115 2012      .WORD  HERE
0961' 1117 2013      .WORD  ONE
0B28' 1119 2014      .WORD  MINS
0305' 111B 2015      .WORD  LIT
0080 111D 2016      .WORD  ^X80
07BF' 111F 2017      .WORD  TGLE
0BB9' 1121 2018      .WORD  LTST
0B07' 1123 2019      .WORD  COMMA
0A75' 1125 2020      .WORD  CRNT
07D9' 1127 2021      .WORD  AT
0802' 1129 2022      .WORD  EX
0AEB' 112B 2023      .WORD  HERE
0ADC' 112D 2024      .WORD  PLUS2
0B07' 112F 2025      .WORD  COMMA
0616' 1131 2026      .WORD  SEMIS
          1133 2027
          C1 1133 2028      .BYTE  ^XC1
          BA 1134 2029      .BYTE  ^XBA
10CE' 1135 2030      .WORD  CRTE-9
091C' 1137 2031      .WORD  NEST
0C57' 1139 2032      .WORD  EXC
0C12' 113B 2033      .WORD  DCSP
0A75' 113D 2034      .WORD  CRNT
07D9' 113F 2035      .WORD  AT
0A67' 1141 2036      .WORD  CNTX
0802' 1143 2037      .WORD  EX
10D7' 1145 2038      .WORD  CRTE
0CDC' 1147 2039      .WORD  RB
0305' 1149 2040      .WORD  LIT
FFFE' 114B 2041      .WORD  ^XFFFE
0A16' 114D 2042      .WORD  DP
07A3' 114F 2043      .WORD  PLUSS
0CB8' 1151 2044      .WORD  CMPL
091C' 1153 2045      .WORD  NEST
0616' 1155 2046      .WORD  SEMIS
          1157 2047
          85 1157 2048      .BYTE  ^XH5
44 4F 43 21 1158 2049      .ASCII /!COD/
          C5 115C 2050      .BYTE  ^XC5
1133' 115D 2051      .WORD  COLON-4
          COLON:
          ; IMMEDIATE
          ;!CODE

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		0802'	11CE	2109		.WORD	FX	
		0D2F'	11D0	2110		.WORD	PCODE	
78	56	H0	11D2	2111	DUZ1:	MOVW	R6,-(R8)	
56	87	R0	11D5	2112		MOVW	(R7)+,R6	
59	02	A0	11D8	2113		ADDW2	#2,R9	
69	57	B0	11DB	2114		MOVW	R7,(R9)	
57	86	B0	11DE	2115		MOVW	(R6)+,R7	
5B	87	3C	11E1	2116		MOVZWL	(R7)+,R11	
	6B	17	11E4	2117		JMP	(R11)	
			11E6	2118				
		C7	11E6	2119		.BYTE	^XC7	
41	52	45	54	49	4C	.ASCII	/LITERA/	;LITERAL
		CC	11ED	2121		.BYTE	^XCC	; (IMMEDIATE)
		11BE'	11EE	2122		.WORD	DOESG-8	
		091C'	11F0	2123	LTL:	.WORD	NEST	
		0A81'	11F2	2124		.WORD	STT	
		07D9'	11F4	2125		.WORD	AT	
		034C'	11F6	2126		.WORD	ZBRCH	
		1200'	11F8	2127		.WORD	LT1	
		0CB8'	11FA	2128		.WORD	CMPL	
		0305'	11FC	2129		.WORD	LIT	
		0B07'	11FE	2130		.WORD	COMMA	
		0616'	1200	2131	LT1:	.WORD	SEMIS	
			1202	2132				
		.C8	1202	2133		.BYTE	^XC8	
41	52	45	54	49	4C	.ASCII	/DLITERA/	;DLITERAL
		CC	120A	2135		.BYTE	^XCC	; (IMMEDIATE)
		11F6'	120B	2136		.WORD	LTL-10	
		091C'	120D	2137	DLTL:	.WORD	NEST	
		0A81'	120F	2138		.WORD	STT	
		07D9'	1211	2139		.WORD	AT	
		034C'	1213	2140		.WORD	ZBRCH	
		121D'	1215	2141		.WORD	DLTL1	
		0775'	1217	2142		.WORD	SWAP	
		11F0'	1219	2143		.WORD	LTL	
		11F0'	121B	2144		.WORD	LTL	
		0616'	121D	2145	DLTL1:	.WORD	SEMIS	
			121F	2146				
		86	121F	2147		.BYTE	^X86	
43	41	54	53	3F	1220	.ASCII	/?STAC/	;?STACK
		CB	1225	2149		.BYTE	^XCB	
		1202'	1226	2150		.WORD	DLTL-11	
		091C'	1228	2151	OSTK:	.WORD	NEST	
		09D4'	122A	2152		.WORD	SO	
		07D9'	122C	2153		.WORD	AT	
		0791'	122E	2154		.WORD	DUP	
		05CF'	1230	2155		.WORD	FSPAT	
		0B4C'	1232	2156		.WORD	GTR	
		0961'	1234	2157		.WORD	ONE	
		0C25'	1236	2158		.WORD	QERR	
		0305'	1238	2159		.WORD	LIT	
		0100	123A	2160		.WORD	^X100	
		06E7'	123C	2161		.WORD	PLUS	
		05CF'	123E	2162		.WORD	FSPAT	
		0B40'	1240	2163		.WORD	LESS	
		0305'	1242	2164		.WORD	LIT	
		0007	1244	2165		.WORD	7	

	0C25'	1246	2166		.WORD	QERR	
	0616'	1248	2167		.WORD	SEMIS	
		124A	2168				
	89	124A	2169		.BYTE	^X89	
45 52 50 52 45 54 4F	49	124B	2170		.ASCII	/INTERPRE/	;INTERPRET
	D4	1253	2171		.BYTE	^XD4	
	121F'	1254	2172		.WORD	QSTK-9	
	091C'	1256	2173	INPT:	.WORD	NEST	
	101E'	1258	2174		.WORD	MFIND	
	034C'	125A	2175		.WORD	ZBRCH	
	127A'	125C	2176		.WORD	PT1	
	0A81'	125E	2177		.WORD	STT	
	07D9'	1260	2178		.WORD	AT	
	0B40'	1262	2179		.WORD	LESS	
	034C'	1264	2180		.WORD	ZBRCH	
	1270'	1266	2181		.WORD	PT2	
	0BD9'	1268	2182		.WORD	CFA	
	0B07'	126A	2183		.WORD	COMMA	
	0335'	126C	2184		.WORD	BRCH	
	1274'	126E	2185		.WORD	PT3	
	0BD9'	1270	2186	PT2:	.WORD	CFA	
	031F'	1272	2187		.WORD	EXE	
	1228'	1274	2188	PT3:	.WORD	QSTK	
	0335'	1276	2189		.WORD	BRCH	
	1294'	1278	2190		.WORD	PT4	
	0AEB'	127A	2191	PT1:	.WORD	HERE	
	0FC6'	127C	2192		.WORD	NMBR	
	0A96'	127E	2193		.WORD	DPL	
	07D9'	1280	2194		.WORD	AT	
	0ACF'	1282	2195		.WORD	PLUS1	
	034C'	1284	2196		.WORD	ZBRCH	
	128E'	1286	2197		.WORD	PT5	
	120D'	1288	2198		.WORD	DLTL	
	0335'	128A	2199		.WORD	BRCH	
	1292'	128C	2200		.WORD	PT6	
	0744'	128E	2201	PT5:	.WORD	DROP	
	11F0'	1290	2202		.WORD	LTL	
	1228'	1292	2203	PT6:	.WORD	QSTK	
	0335'	1294	2204	PT4:	.WORD	BRCH	
	1258'	1296	2205		.WORD	INPT+2	
	0616'	1298	2206		.WORD	SEMIS	
		129A	2207				
	8A	129A	2208		.BYTE	^X8A	
52 41 4C 55 42 41 43 4F	56	129B	2209		.ASCII	/VOCABULAR/	;VOCABULARY
	D9	12A4	2210		.BYTE	^XD9	
	124A'	12A5	2211		.WORD	INPT-12	
	091C'	12A7	2212	VRLY:	.WORD	NEST	
	11B6'	12A9	2213		.WORD	LBLD	
	0305'	12AB	2214		.WORD	LIT	
	81A0	12AD	2215		.WORD	^X81A0	
	0B07'	12AF	2216		.WORD	COMMA	
	0A75'	12B1	2217		.WORD	CRNT	
	07D9'	12B3	2218		.WORD	AT	
	0BD9'	12B5	2219		.WORD	CFA	
	0R07'	12B7	2220		.WORD	COMMA	
	0AEB'	12B9	2221		.WORD	HERE	
	0A25'	12BB	2222		.WORD	VL	

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07D9' 12BD 2223 .WORD AT
0807' 12BF 2224 .WORD COMMA
0A25' 12C1 2225 .WORD VL
0802' 12C3 2226 .WORD EX
11C6' 12C5 2227 .WORD DOESG
0ADC' 12C7 2228 VB1: .WORD PLUS2
0A67' 12C9 2229 .WORD CNTX
0802' 12CB 2230 .WORD EX
0616' 12CD 2231 .WORD SEMIS
      12CF 2232
      C5 12CF 2233 FRTH: .BYTE ^XC5
54 52 4F 46 12D0 2234 .ASCII /FORT/ ;FORTH
      C8 12D4 2235 .BYTE ^XC8 ; (IMMEDIATE)
129A' 12D5 2236 .WORD VBLV-13
11D2' 12D7 2237 .WORD DUZ1
12C7' 12D9 2238 .WORD VB1
81A0 12DB 2239 .WORD ^X81A0
1DDA' 12DD 2240 .WORD TASK-7
0000 12DF 2241 .WORD 0
      12E1 2242
      12E1 2243
      12E1 2244
      8B 12E1 2245 .BYTE ^X8B
4E 4F 49 54 49 4E 49 46 45 44 12E2 2246 .ASCII /DEFINITION/ ;DEFINITIONS
      .D3 12EC 2247 .BYTE ^XD3
12CF' 12ED 2248 .WORD FRTH
091C' 12EF 2249 DFN: .WORD NEST
0A67' 12F1 2250 .WORD CNTX
07D9' 12F3 2251 .WORD AT
0A75' 12F5 2252 .WORD CRNT
0802' 12F7 2253 .WORD EX
0616' 12F9 2254 .WORD SEMIS
      12FB 2255
      84 12FB 2256 .BYTE ^X84
49 55 51 12FC 2257 .ASCII /QUI/ ;QUIT
      D4 12FF 2258 .BYTE ^XD4
12E1' 1300 2259 .WORD DFN-14
091C' 1302 2260 QUIT: .WORD NEST
0959' 1304 2261 .WORD ZERO
0A2F' 1306 2262 .WORD BLK
0802' 1308 2263 .WORD EX
0CCE' 130A 2264 .WORD LB
0600' 130C 2265 Q2: .WORD RP1
0913' 130E 2266 .WORD CR
0E6A' 1310 2267 .WORD QUER
1256' 1312 2268 .WORD INPT
0A81' 1314 2269 .WORD STT
07D9' 1316 2270 .WORD AT
0681' 1318 2271 .WORD ZEQAL
034C' 131A 2272 .WORD ZBRCH
1325' 131C 2273 .WORD Q1
0DCF' 131E 2274 .WORD PDQ
      04 1320 2275 .BYTE ^X4
4R 4F 20 20 1321 2276 .ASCII / QK/
0335' 1325 2277 Q1: .WORD BRCH
130C' 1327 2278 .WORD Q2
0616' 1329 2279 .WORD SEMIS

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        132R 2280
        85 132R 2281      .BYTE  ^X85
    52 4F 42 41 132C 2282  .ASCII  /ABOR/      ;ABORT
        D4 1330 2283      .BYTE  ^XD4
        12FB' 1331 2284      .WORD  OUIT-7
        091C' 1333 2285      .WORD  NEST
        05E8' 1335 2286      .WORD  SP1
        0019' 1337 2287      .WORD  MDCML
        0913' 1339 2288      .WORD  CR
        0305' 133B 2289      .WORD  LIT
        0015 133D 2290      .WORD  ^X15
        17C7' 133F 2291      .WORD  SPACS
        0DCF' 1341 2292      .WORD  PDQ
    20 4F 54 20 45 4D 4F 43 4C 45 57 00' 1343 2293  .ASCII  /WELCOME TO VAX-FORTH V1.0 19-OCT-1981/
    31 56 20 48 54 52 4F 46 2D 58 41 56 134F
    39 31 2D 54 43 4F 2D 39 31 20 30 2E 135B
        31 38 1367
        25 1343
        1CD0' 1369 2294      .WORD  DRZER
        1A52' 136B 2295      .WORD  MTBUF
        0988' 136D 2296      .WORD  FIRST
        0791' 136F 2297      .WORD  DUP
        19F4' 1371 2298      .WORD  PREV
        0802' 1373 2299      .WORD  EX
        19E9' 1375 2300      .WORD  USE
        0802' 1377 2301      .WORD  EX
        12D7' 1379 2302      .WORD  FRTH+8
        12EF' 137B 2303      .WORD  DFN
        1302' 137D 2304      .WORD  QUIT
        0616' 137F 2305      .WORD  SEMIS
        1381 2306
        C1 1381 2307      .BYTE  ^XC1
        RR 1382 2308      .BYTE  ^XBB      ;;
        132B' 1383 2309      .WORD  ABORT-8      ; (IMMEDIATE)
        091C' 1385 2310      .WORD  NEST
        0C81' 1387 2311      .WORD  QCSP
        0C8B' 1389 2312      .WORD  CMPL
        0616' 138B 2313      .WORD  SEMIS
        0CF1' 138D 2314      .WORD  SMDG
        0CCE' 138F 2315      .WORD  LB
        0616' 1391 2316      .WORD  SEMIS
        1393 2317
        C2 1393 2318      .BYTE  ^XC2
        2E 1394 2319      .ASCII  /./      ; ."
        A2 1395 2320      .BYTE  ^XA2      ; (IMMEDIATE)
        1381' 1396 2321      .WORD  SEMIC-4
        091C' 1398 2322      .WORD  NEST
        0305' 139A 2323      .WORD  LIT
        0022 139C 2324      .WORD  ^X22
        0A81' 139E 2325      .WORD  STT
        07D9' 13A0 2326      .WORD  AT
        034C' 13A2 2327      .WORD  ZBRCH
        138B' 13A4 2328      .WORD  DOTQ1
        0C8B' 13A6 2329      .WORD  CMPL
        0DCF' 13A8 2330      .WORD  PDQ
        0F2A' 13AA 2331      .WORD  WORD
        0A8D' 13AC 2332      .WORD  HERE
    
```

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07E8' 13A8 2333 .WORD CAT
0ACF' 13B0 2334 .WORD PLUS1
0AF8' 13B2 2335 .WORD ALLDOT
0335' 13B4 2336 .WORD BRCH
13C0' 13B6 2337 .WORD DOTQ2
0F2A' 13B8 2338 DOTQ1: .WORD WORD
0AEB' 13BA 2339 .WORD HERE
0DS8' 13BC 2340 .WORD CNT
0D6E' 13BE 2341 .WORD TYPE
0616' 13C0 2342 DOTQ2: .WORD SEMIS
13C2 2343
C9 13C2 2344 .BYTE ^XC9
45 4C 49 50 4D 4F 43 5B 13C3 2345 .ASCII /ICOMPILE/
DD 13CB 2346 .BYTE ^XDD
1393' 13CC 2347 .WORD DOTQ-5
091C' 13CE 2348 RCOMP: .WORD NEST
101E' 13D0 2349 .WORD MFIND
0681' 13D2 2350 .WORD ZFOAL
0959' 13D4 2351 .WORD ZERU
0C25' 13D6 2352 .WORD QERR
0744' 13D8 2353 .WORD DROP
0RD9' 13DA 2354 .WORD CFA
0R07' 13DC 2355 .WORD COMMA
0616' 13DE 2356 .WORD SEMIS
89 13E0 2357 .BYTE ^X89
54 41 49 44 45 4D 40 49 13E1 2358 .ASCII /IMMEDIATE/
C5 13E9 2360 .BYTE ^XC5
13C2' 13FA 2361 .WORD RCOMP-12
091C' 13FC 2362 IMMED: .WORD NEST
08B9' 13FE 2363 .WORD LTST
0305' 13F0 2364 .WORD LIT
0040' 13F2 2365 .WORD ^X40
07BF' 13F4 2366 .WORD TGLF
0616' 13F6 2367 .WORD SEMIS
C1 13F8 2368 .BYTE ^XC1
A8 13F9 2370 .BYTE ^XAR
13E0' 13FA 2371 .WORD IMMED-12
091C' 13FC 2372 PAREN: .WORD NEST
0305' 13FE 2373 .WORD LIT
0029' 1400 2374 .WORD ^X29
0F2A' 1402 2375 .WORD WORD
0616' 1404 2376 .WORD SEMIS
1406 2377
81 1406 2378 .BYTE ^X81
83 1407 2379 .BYTE ^X83
13F8' 1408 2380 .WORD PAREN-4
0938' 140A 2381 THREE: .WORD CONST
0003 140C 2382 .WORD 3
C1 140E 2383 .BYTE ^XC1
A7 140F 2385 .BYTE ^XAT
1406' 1410 2386 .WORD PAREN-4
091C' 1412 2387 TICK: .WORD NEST
101F' 1414 2388 .WORD MFIND
0681' 1416 2389 .WORD ZFOAL

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0959' 1418 2390      .WORD  ZERO
0C25' 141A 2391      .WORD  QERR
0744' 141C 2392      .WORD  DROP
11F0' 141E 2393      .WORD  LTL
0616' 1420 2394      .WORD  SEMIS
      1422 2395
      R6 1422 2396      .BYTE  ^XR6
45 47 52 4F 46 1423 2397 .ASCII /FORGE/      ;FORGET
      D4 1428 2398      .BYTE  ^XD4
140E' 1429 2399      .WORD  TICK-4
091C' 142B 2400  FORG: .WORD  NEST
0A75' 142D 2401      .WORD  CRNT
07D9' 142F 2402      .WORD  AT
0A67' 1431 2403      .WORD  CNTX
07D9' 1433 2404      .WORD  AT
0R28' 1435 2405      .WORD  MINS
0305' 1437 2406      .WORD  LIT
0018 1439 2407      .WORD  ^X18
0C25' 143B 2408      .WORD  QERR
1412' 143D 2409      .WORD  TICK
0791' 143F 2410      .WORD  DUP
0A0D' 1441 2411      .WORD  FNCE
07D9' 1443 2412      .WORD  AT
0B40' 1445 2413      .WORD  LESS
0305' 1447 2414      .WORD  LIT
0015 1449 2415      .WORD  ^X15
0C25' 144B 2416      .WORD  QERR
0791' 144D 2417      .WORD  DUP
0BF7' 144F 2418      .WORD  NFA
0A16' 1451 2419      .WORD  DP
0802' 1453 2420      .WORD  EX
0BC9' 1455 2421      .WORD  LFA
07D9' 1457 2422      .WORD  AT
0A67' 1459 2423      .WORD  CNTX
07D9' 145B 2424      .WORD  AT
0802' 145D 2425      .WORD  EX
0616' 145F 2426      .WORD  SEMIS
      1461 2427
      82 1461 2428      .BYTE  ^XB2
      2B 1462 2429      .ASCII /+ /      ;+-
      AD 1463 2430      .BYTE  ^XAD
1422' 1464 2431      .WORD  FORG-9
091C' 1466 2432  PM: .WORD  NEST
06C7' 1468 2433      .WORD  ZLESS
034C' 146A 2434      .WORD  ZBRCH
1470' 146C 2435      .WORD  PM1
06FC' 146F 2436      .WORD  MINUS
0616' 1470 2437  PMJ: .WORD  SEMIS
      1472 2438
      83 1472 2439      .BYTE  ^XB3
2H 44 1473 2440      .ASCII /D+ /      ;D+-
      AD 1475 2441      .BYTE  ^XAD
1461' 1476 2442      .WORD  PM-5
091C' 1478 2443  DPM: .WORD  NEST
06C7' 147A 2444      .WORD  ZLESS
034C' 147C 2445      .WORD  ZBRCH
1472' 147E 2446      .WORD  DPM1

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072A' 1480 2447      .WORD  DMIN
0616' 1482 2448 DP41: .WORD  SEMIS
      1484 2449
      R3 1484 2450      .BYTE  ^X83
42 41 1485 2451      .ASCII /AB/      ;ABS
      D3 1487 2452      .BYTE  ^XD3
1472' 1488 2453      .WORD  DPM-6
091C' 148A 2454 AHS:  .WORD  NEST
0791' 148C 2455      .WORD  DUP
1466' 148E 2456      .WORD  PH
0616' 1490 2457      .WORD  SEMIS
      1492 2458
      R4 1492 2459      .BYTE  ^X84
42 41 44 1493 2460      .ASCII /DAB/      ;DABS
      D3 1496 2461      .BYTE  ^XD3
1484' 1497 2462      .WORD  ABS-6
091C' 1499 2463 DARS:  .WORD  NEST
0791' 149B 2464      .WORD  DUP
1478' 149D 2465      .WORD  DPM
0616' 149F 2466      .WORD  SEMIS
      14A1 2467
      R2 14A1 2468      .BYTE  ^X82
      44 14A2 2469      .ASCII /D/      ;D-
      AD 14A3 2470      .BYTE  ^XAD
1492' 14A4 2471      .WORD  DABS-7
091C' 14A6 2472 DMINS: .WORD  NEST
072A' 14A8 2473      .WORD  DMIN
070E' 14AA 2474      .WORD  DPLUS
0616' 14AC 2475      .WORD  SEMIS
      14AE 2476
      R2 14AE 2477      .BYTE  ^X82
      44 14AF 2478      .ASCII /D/      ;D#
      CD 14B0 2479      .BYTE  ^XC0
14A1' 14B1 2480      .WORD  DMINS-5
091C' 14B3 2481 DAT:  .WORD  NEST
0791' 14B5 2482      .WORD  DUP
0305' 14B7 2483      .WORD  LIT
0002 14B9 2484      .WORD  ^X02
06E7' 14BB 2485      .WORD  PLUS
07D9' 14BD 2486      .WORD  AT
0775' 14BF 2487      .WORD  SWAP
07D9' 14C1 2488      .WORD  AT
0616' 14C3 2489      .WORD  SEMIS
      14C5 2490
      R2 14C5 2491      .BYTE  ^X82
      44 14C6 2492      .ASCII /D/      ;D!
      A1 14C7 2493      .BYTE  ^XA1
14AE' 14C8 2494      .WORD  DAT-5
091C' 14CA 2495 DEX:  .WORD  NEST
0791' 14CC 2496      .WORD  DUP
0B5A' 14CE 2497      .WORD  ROT
0775' 14D0 2498      .WORD  SWAP
0R02' 14D2 2499      .WORD  EX
0305' 14D4 2500      .WORD  LIT
0002 14D6 2501      .WORD  ^X02
06E7' 14D8 2502      .WORD  PLUS
0R02' 14DA 2503      .WORD  EX

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0616' 14DC 2504 .WORD SEMIS
      14DE 2505
55 44 84 14DE 2506 .BYTE ^X84
      32 14DF 2507 .ASCII /2DU/ ;2DUP
      DO 14E2 2508 .BYTE ^XD0
      14C5' 14F3 2509 .WORD DEX-5
      091C' 14E5 2510 DDUP: .WORD NEST
      0758' 14E7 2511 .WORD OVER
      0758' 14E9 2512 .WORD OVER
      0616' 14EB 2513 .WORD SEMIS
      14ED 2514
      85 14ED 2515 .BYTE ^X85
4F 52 44 32 14EE 2516 .ASCII /2DRO/ ;2DROP
      DO 14F2 2517 .BYTE ^XD0
      14DF' 14F3 2518 .WORD DDUP-7
      091C' 14F5 2519 DDRUP: .WORD NEST
      0744' 14F7 2520 .WORD DROP
      0744' 14F9 2521 .WORD DROP
      0616' 14FB 2522 .WORD SEMIS
      14FD 2523
      85 14FD 2524 .BYTE ^X85
41 57 53 32 14FE 2525 .ASCII /2SWA/ ;2SWAP
      DO 1502 2526 .BYTE ^XD0
      14ED' 1503 2527 .WORD DDRUP-8
      091C' 1505 2528 DSWAP: .WORD NEST
      085A' 1507 2529 .WORD ROT
      0643' 1509 2530 .WORD GR
      085A' 150B 2531 .WORD ROT
      0658' 150D 2532 .WORD RG
      0616' 150F 2533 .WORD SEMIS
      1511 2534
      85 1511 2535 .BYTE ^X85
45 56 4F 32 1512 2536 .ASCII /2OVE/ ;2OVER
      DO 1516 2537 .BYTE ^XD2
      14FD' 1517 2538 .WORD DSWAP-8
      091C' 1519 2539 DOVER: .WORD NEST
      1505' 151B 2540 .WORD DSWAP
      14F5' 151D 2541 .WORD DDUP
      0643' 151F 2542 .WORD GR
      0643' 1521 2543 .WORD GR
      1505' 1523 2544 .WORD DSWAP
      0658' 1525 2545 .WORD RG
      0658' 1527 2546 .WORD RG
      0616' 1529 2547 .WORD SEMIS
      152B 2548
      82 152B 2549 .BYTE ^X82
      44 152C 2550 .ASCII /D/ ;D*
      AA 152D 2551 .BYTE ^XAA
      1511' 152E 2552 .WORD DOVER-8
      091C' 1530 2553 DSTAR: .WORD NEST
      0791' 1532 2554 .WORD DUP
      085A' 1534 2555 .WORD ROT
      15FC' 1536 2556 .WORD STAR
      085A' 1538 2557 .WORD ROT
      085A' 153A 2558 .WORD ROT
      054F' 153C 2559 .WORD HSTAR
      085A' 153E 2560 .WORD ROT
    
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06F7' 1540 2561      .WORD  PLUS
0616' 1542 2562      .WORD  SEMIS
      1544 2563
      82 1544 2564      .BYTE  ^X82
      44 1545 2565      .ASCII  /D/
      AF 1546 2566      .BYTE  ^XAF
152B' 1547 2567      .WORD  DSTAR=5
091C' 1549 2568      .WORD  NEST
0775' 154B 2569      .WORD  SWAP
0758' 154D 2570      .WORD  OVER
15FB' 154F 2571      .WORD  SI,MOD
0758' 1551 2572      .WORD  OVER
0791' 1553 2573      .WORD  DUP
06C7' 1555 2574      .WORD  ZLESS
034C' 1557 2575      .WORD  ZBRCH
1561' 1559 2576      .WORD  DSL1
06E7' 155B 2577      .WORD  PLUS
0335' 155D 2578      .WORD  BRCH
1563' 155F 2579      .WORD  DSL2
0744' 1561 2580      .WORD  DROP
0643' 1563 2581      .WORD  GR
0775' 1565 2582      .WORD  SWAP
15C6' 1567 2583      .WORD  MSLAS
0775' 1569 2584      .WORD  SWAP
0744' 156B 2585      .WORD  DROP
0658' 156D 2586      .WORD  RG
0616' 156F 2587      .WORD  SEMIS
      1571 2588
      R5 1571 2589      .BYTE  ^X85
4F 4D 2F 44 1572 2590 .ASCII  \D/MO\
      C4 1576 2591      .BYTE  ^XC4
      1544' 1577 2592      .WORD  DSLAS=5
091C' 1579 2593      .WORD  NEST
056F' 157B 2594      .WORD  USLSH
0616' 157D 2595      .WORD  SEMIS
      157F 2596
      83 157F 2597      .BYTE  ^X83
41 4D 1580 2598      .ASCII  /M/
      DB 1582 2599      .BYTE  ^XD8
      1571' 1583 2600      .WORD  DSMOD=8
091C' 1585 2601      .WORD  NEST
0758' 1587 2602      .WORD  OVER
0758' 1589 2603      .WORD  OVER
0R40' 158B 2604      .WORD  LESS
034C' 158D 2605      .WORD  ZBRCH
1593' 158F 2606      .WORD  MAX1
0775' 1591 2607      .WORD  SWAP
0744' 1593 2608      .WORD  DROP
0616' 1595 2609      .WORD  SEMIS
      1597 2610
      R2 1597 2611      .BYTE  ^X82
      4D 1598 2612      .ASCII  /M/
      AB 1599 2613      .BYTE  ^XAB
      157F' 159A 2614      .WORD  MAX=6
041C' 159C 2615      .WORD  NEST
1989' 159E 2616      .WORD  STOD
070E' 15A0 2617      .WORD  DPLUS
    
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0616' 15A2 2618      .WORD  SEMIS
          15A4 2619
      B2 15A4 2620      .BYTE  ^X82
      4D 15A5 2621      .ASCII  /M/
      AA 15A6 2622      .BYTE  ^XAA
1597' 15A7 2623      .WORD  MPLUS-5
091C' 15A9 2624  MSTAR: .WORD  NEST
0758' 15AB 2625      .WORD  OVER
0758' 15AD 2626      .WORD  OVER
05BC' 15AF 2627      .WORD  FXOR
0643' 15B1 2628      .WORD  GR
148A' 15B3 2629      .WORD  ABS
0775' 15B5 2630      .WORD  SWAP
148A' 15B7 2631      .WORD  ABS
054F' 15B9 2632      .WORD  USTAR
0658' 15BB 2633      .WORD  RG
1478' 15BD 2634      .WORD  DPM
0616' 15BF 2635      .WORD  SEMIS
          15C1 2636
      B2 15C1 2637      .BYTE  ^X82
      4D 15C2 2638      .ASCII  /M/
      AF 15C3 2639      .BYTE  ^XAF
15A4' 15C4 2640      .WORD  MSTAR-5
091C' 15C6 2641  MSLAS: .WORD  NEST
0758' 15C8 2642      .WORD  OVER
0643' 15CA 2643      .WORD  GR
0643' 15CC 2644      .WORD  GR
1499' 15CE 2645      .WORD  DABS
066C' 15D0 2646      .WORD  R
148A' 15D2 2647      .WORD  ABS
056E' 15D4 2648      .WORD  USLSH
0658' 15D6 2649      .WORD  RG
066C' 15D8 2650      .WORD  R
05BC' 15DA 2651      .WORD  FXOR
1466' 15DC 2652      .WORD  PM
0775' 15DE 2653      .WORD  SWAP
0658' 15E0 2654      .WORD  RG
1466' 15E2 2655      .WORD  PM
0775' 15E4 2656      .WORD  SWAP
0616' 15F6 2657      .WORD  SEMIS
          15E8 2658
      B1 15E8 2659      .BYTE  ^X81
      AA 15E9 2660      .BYTE  ^XAA
15C1' 15EA 2661      .WORD  MSLAS-5
091C' 15EC 2662  STAR: .WORD  NEST
15A9' 15EE 2663      .WORD  MSTAR
0744' 15F0 2664      .WORD  DROP
0616' 15F2 2665      .WORD  SEMIS
          15F4 2666
      B4 15F4 2667      .BYTE  ^X84
4F 4D 2F 15F5 2668      .ASCII  \ /MOD\
          C4 15F8 2669      .BYTE  ^XC4
15F8' 15F9 2670      .WORD  STAR-4
15FD' 15FB 2671  SLMOD: .WORD  SLMOD+2
          5B D4 15FD 2672      CLRRL R11
          69 32 15FF 2673      CVT&L (R9),R4
          79 B5 1602 2674      TSTW  -(R9)

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07 18 1604 2675      BGEQ      SLMOD1
5R  FFFFFFFF 8F D0 1606 2676      MOVL      #^XXXXXXXX,R11
    5A 69 32 1600 2677 SLMOD1:  CVTWL      (R9),R10
54  5A 5A 54 7B 1610 2678      EDIV      R4,R10,R10,R4
    89 54 80 1615 2679      MOVW      R4,(R9)+
    69 5A 80 1618 2680      MOVW      R10,(R9)
    57 86 80 161B 2681      MOVW      (R6)+,R7
    5B 87 3C 161E 2682      MOVZWL   (R7)+,R11
    6B 17 1621 2683      JMP       (R11)
    1623 2684
    R1 1623 2685      .BYTE    ^X81
    AF 1624 2686      .BYTE    ^XAF
    15F4' 1625 2687     .WORD    SLMOD-7
    1629' 1627 2688 SLASH:  .WORD    SLASH+2      ;/
79  69 A6 1629 2689      DIVW2    (R9),-(R9)
57  86 80 162C 2690      MOVW      (R6)+,R7
5B  87 3C 162F 2691      MOVZWL   (R7)+,R11
    6B 17 1632 2692      JMP       (R11)
    1634 2693
    R3 1634 2694      .BYTE    ^X83
    4F 4D 1635 2695     .ASCII   /MO/
    C4 1637 2696      .BYTE    ^XC4
    1623' 1638 2697     .WORD    SLASH-4
    091C' 163A 2698 MODD:  .WORD    NEST        ;MOD
    15FB' 163C 2699     .WORD    SLMOD
    0744' 163E 2700     .WORD    DROP
    0616' 1640 2701     .WORD    SEMIS
    1642 2702
    R5 1642 2703      .BYTE    ^X85
    4F 4D 2F 2A 1643 2704     .ASCII   \*/MO\      ;*/MOD
    C4 1647 2705      .BYTE    ^XC4
    1634' 1648 2706     .WORD    MODD-6
    091C' 164A 2707 SSMOD:  .WORD    NEST
    0643' 164C 2708     .WORD    GR
    15A9' 164E 2709     .WORD    MSTAR
    0658' 1650 2710     .WORD    RG
    15C6' 1652 2711     .WORD    MSLAS
    0616' 1654 2712     .WORD    SEMIS
    1656 2713
    R2 1656 2714      .BYTE    ^X82
    2A 1657 2715     .ASCII   /*/        ;*/
    AF 1658 2716      .BYTE    ^XAF
    1642' 1659 2717     .WORD    SSMOD-8
    091C' 165B 2718 SSLA:  .WORD    NEST
    164A' 165D 2719     .WORD    SSMOD
    0775' 165F 2720     .WORD    SWAP
    0744' 1661 2721     .WORD    DROP
    0616' 1663 2722     .WORD    SEMIS
    1665 2723
    R5 1665 2724      .BYTE    ^X85
    4F 4D 2F 4D 1666 2725     .ASCII   \M/MO\      ;M/MOD
    C4 166A 2726      .BYTE    ^XC4
    1656' 166B 2727     .WORD    SSLA-5
    091C' 166D 2728 HSMOD:  .WORD    NEST
    0643' 166F 2729     .WORD    GR
    0959' 1671 2730     .WORD    ZERO
    066C' 1673 2731     .WORD    R

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056E' 1675 2732 .WORD USLSH
0658' 1677 2733 .WORD RG
0775' 1679 2734 .WORD SWAP
0643' 167B 2735 .WORD GR
056E' 167D 2736 .WORD USLSH
0658' 167F 2737 .WORD RG
0616' 1681 2738 .WORD SEMIS
      1683 2739
      83 1683 2740 .BYTE ^X83
4F 4D 1684 2741 .ASCII /MU/ ;MON
      CE 1686 2742 .BYTE ^XCE
1665' 1687 2743 .WORD MSMOD=8
168B' 1689 2744 MON: .WORD MON+2
50 00000000'8F D0 168B 2745 MOVL #SS$_NORMAL,R0
      04 1692 2746 RET
      1693 2747
      83 1693 2748 .BYTE ^X83
59 42 1694 2749 .ASCII /BY/ ;BYE
      C5 1696 2750 .BYTE ^XC5
1683' 1697 2751 .WORD MON-6
091C' 1699 2752 BYE: .WORD NEST
0913' 169B 2753 .WORD CR
1DB6' 169D 2754 .WORD FLUSH
1689' 169F 2755 .WORD MON
0616' 16A1 2756 .WORD SEMIS ;THE ONLY WAY OUT
      16A3 2757
      84 16A3 2758 .BYTE ^X84
43 41 42 16A4 2759 .ASCII /BAC/ ;BACK
      CB 16A7 2760 .BYTE ^XCB
1693' 16A8 2761 .WORD BYE-6
091C' 16AA 2762 BACK: .WORD NEST
0B07' 16AC 2763 .WORD COMMA
0616' 16AE 2764 .WORD SEMIS
      16B0 2765
      C5 16B0 2766 .BYTE ^XC5
49 47 45 42 16B1 2767 .ASCII /BEGI/ ;BEGIN
      CE 16B5 2768 .BYTE ^XCE
16A3' 16B6 2769 .WORD BACK-7
091C' 16B8 2770 BEGIN: .WORD NEST
0C3F' 16BA 2771 .WORD QCMP
0AFB' 16BC 2772 .WORD HERE
0961' 16BE 2773 .WORD ONE
0616' 16C0 2774 .WORD SEMIS
      16C2 2775
      C5 16C2 2776 .BYTE ^XC5
49 44 4E 45 16C3 2777 .ASCII /ENDI/ ;ENDIF
      C6 16C7 2778 .BYTE ^XC6
16B0' 16C8 2779 .WORD BEGIN-8
091C' 16CA 2780 ENDIFF: .WORD NEST
0C3F' 16CC 2781 .WORD QCMP
0969' 16CE 2782 .WORD TWO
0C6E' 16D0 2783 .WORD QPR
0AEB' 16D2 2784 .WORD HERE
0775' 16D4 2785 .WORD SWAP
0B02' 16D6 2786 .WORD FX
0616' 16D8 2787 .WORD SEMIS
      16DA 2788

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      C4 173C 2846      .BYTE  ^XC4
      1723' 173D 2847      .WORD  UNTIL-8
      091C' 173F 2848 ENDD: .WORD  NEST
      172B' 1741 2849      .WORD  UNTIL      ;END IS THE SAME AS UNTIL
      0616' 1743 2850      .WORD  SEMIS
      1745 2851
      C5 1745 2852      .BYTE  ^XC5
49 41 47 41 1746 2853      .ASCII /AGAI/      ;AGAIN
      CE 174A 2854      .BYTE  ^XCE
      1739' 174B 2855      .WORD  ENDD-6
      091C' 174D 2856 AGAIN: .WORD  NEST
      0961' 174F 2857      .WORD  ONE
      0C6E' 1751 2858      .WORD  QPR
      0CB8' 1753 2859      .WORD  Cmpl
      0335' 1755 2860      .WORD  BRCH
      16AA' 1757 2861      .WORD  BACK
      0616' 1759 2862      .WORD  SEMIS
      175B 2863
      C6 175B 2864      .BYTE  ^XC6
41 45 50 45 52 175C 2865      .ASCII /REPEA/      ;REPEAT
      D4 1761 2866      .BYTE  ^XD4
      1745' 1762 2867      .WORD  AGAIN-8
      091C' 1764 2868 REPEA: .WORD  NEST
      0643' 1766 2869      .WORD  GR
      0643' 1768 2870      .WORD  GR
      174D' 176A 2871      .WORD  AGAIN
      0658' 176C 2872      .WORD  RG
      0658' 176E 2873      .WORD  RG
      0969' 1770 2874      .WORD  TWO
      0B28' 1772 2875      .WORD  MINS
      16CA' 1774 2876      .WORD  ENDIFF
      0616' 1776 2877      .WORD  SEMIS
      1778 2878
      C2 1778 2879      .BYTE  ^XC2
      49 1779 2880      .ASCII /I/      ;IF
      C6 177A 2881      .BYTE  ^XC6
      175B' 177B 2882      .WORD  REPEA-9
      091C' 177D 2883 IFF: .WORD  NEST
      0CB8' 177F 2884      .WORD  Cmpl
      034C' 1781 2885      .WORD  ZBRCH
      0AEB' 1783 2886      .WORD  HERE
      0959' 1785 2887      .WORD  ZERO
      0B07' 1787 2888      .WORD  COMMA
      0969' 1789 2889      .WORD  TWO
      0616' 178B 2890      .WORD  SEMIS
      178D 2891
      C4 178D 2892      .BYTE  ^XC4
53 4C 45 178E 2893      .ASCII /ELS/      ;ELSE
      C5 1791 2894      .BYTE  ^XC5
      1778' 1792 2895      .WORD  IFF-5
      091C' 1794 2896 ELSEE: .WORD  NEST
      0969' 1796 2897      .WORD  TWO
      0C6E' 1798 2898      .WORD  QPR
      0CB8' 179A 2899      .WORD  Cmpl
      0335' 179C 2900      .WORD  BRCH
      0AEB' 179E 2901      .WORD  HERE
      0959' 17A0 2902      .WORD  ZERO

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0B07' 17A2 2903      .WORD  COMMA
0775' 17A4 2904      .WORD  SWAP
0969' 17A6 2905      .WORD  TWO
16CA' 17A8 2906      .WORD  ENDIFF
0969' 17AA 2907      .WORD  TWO
0616' 17AC 2908      .WORD  SEMIS
      17AE 2909
      C5 17AE 2910      .BYTE  ^XC5
4C 49 48 57 17AF 2911  .ASCII  /WHIL/      ;WHILE
      C5 17B3 2912      .BYTE  ^XC5
      178D' 17B4 2913  .WORD  ELSEE-7
091C' 17B6 2914  WHITE: .WORD  NEST
      177D' 17B8 2915  .WORD  IFF
0ADC' 17BA 2916      .WORD  PLUS2
0616' 17BC 2917      .WORD  SEMIS
      17BE 2918
      86 17BE 2919      .BYTE  ^X86
45 43 41 50 53 17BF 2920 .ASCII  /SPACE/      ;SPACES
      D3 17C4 2921      .BYTE  ^XD3
      17AF' 17C5 2922  .WORD  WHILE-8
091C' 17C7 2923  SPACS: .WORD  NEST
0959' 17C9 2924      .WORD  ZFRU
1585' 17CB 2925      .WORD  MAX
0B7D' 17CD 2926      .WORD  MDUP
034C' 17CF 2927      .WORD  ZBRCH
17DD' 17D1 2928      .WORD  SPAX1
0959' 17D3 2929      .WORD  ZFRU
03F8' 17D5 2930      .WORD  PDD
0B6E' 17D7 2931  SPAX2: .WORD  SPC
0377' 17D9 2932      .WORD  LUPE
17D7' 17DB 2933      .WORD  SPAX2
0616' 17DD 2934  SPAX1: .WORD  SEMIS
      17DF 2935
      82 17DF 2936      .BYTE  ^X82
      3C 17E0 2937      .BYTE  ^X3C      ;<#
      A3 17E1 2938      .BYTE  ^XA3
      17BE' 17E2 2939  .WORD  SPACS-9
091C' 17E4 2940  BDIGS: .WORD  NEST
0F17' 17E6 2941      .WORD  PAD
0ABD' 17E8 2942      .WORD  HLD
0802' 17EA 2943      .WORD  EX
0616' 17EC 2944      .WORD  SEMIS
      17EE 2945
      82 17EF 2946      .BYTE  ^X82
      23 17EF 2947      .BYTE  ^X23      ;#>
      RF 17F0 2948      .BYTE  ^XBE
      17DF' 17F1 2949  .WORD  BDIGS-5
091C' 17F3 2950  EDIGS: .WORD  NEST
0744' 17F5 2951      .WORD  DROP
0744' 17F7 2952      .WORD  DROP
0ABD' 17F9 2953      .WORD  HLD
07D9' 17FB 2954      .WORD  AT
0F17' 17FD 2955      .WORD  PAD
0758' 17FF 2956      .WORD  OVER
0H28' 1801 2957      .WORD  MINS
0616' 1803 2958      .WORD  SEMIS
      1805 2959

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      84 1805 2960      .BYTE  ^X84
47 49 53 1806 2961      .ASCII  /SIG/          ;SIGN
      CE 1809 2962      .BYTE  ^XCE
      17FF' 180A 2963      .WORD  EDIGS-5
      091C' 180C 2964      .WORD  NEST          SIGN:
      0B5A' 180E 2965      .WORD  ROT
      06C7' 1810 2966      .WORD  ZLESS
      034C' 1812 2967      .WORD  ZBRCH
      181C' 1814 2968      .WORD  SIGN1
      0305' 1816 2969      .WORD  LIT
      002D 1818 2970      .WORD  ^X2D
      0EFF' 181A 2971      .WORD  HOLD
      0616' 181C 2972      .WORD  SEMIS          SIGN1:
      181E 2973
      81 181E 2974      .BYTE  ^X81
      A3 181F 2975      .BYTE  ^XA3          ;#
      1805' 1820 2976      .WORD  SIGN-7
      091C' 1822 2977      .WORD  NEST          DIG:
      0A8C' 1824 2978      .WORD  BASE
      07D9' 1826 2979      .WORD  AT
      166D' 1828 2980      .WORD  MSMOD
      0B5A' 182A 2981      .WORD  ROT
      0305' 182C 2982      .WORD  LIT
      0009 182E 2983      .WORD  9
      0758' 1830 2984      .WORD  OVER
      0B40' 1832 2985      .WORD  LESS
      034C' 1834 2986      .WORD  ZBRCH
      183E' 1836 2987      .WORD  DIG1
      0305' 1838 2988      .WORD  LIT
      0007 183A 2989      .WORD  7
      06E7' 183C 2990      .WORD  PLUS
      0305' 183E 2991      .WORD  LIT          DIG1:
      0030 1840 2992      .WORD  ^X30
      06F7' 1842 2993      .WORD  PLUS
      0EFF' 1844 2994      .WORD  HOLD
      0616' 1846 2995      .WORD  SEMIS
      1848 2996
      82 1848 2997      .BYTE  ^X82
      23 1849 2998      .ASCII  /#/          ;#S
      D3 184A 2999      .BYTE  ^XD3
      181F' 184B 3000      .WORD  DIG-4
      091C' 184D 3001      .WORD  NEST          DIGS:
      1822' 184F 3002      .WORD  DIG          DIGS1:
      0758' 1851 3003      .WORD  OVER
      0758' 1853 3004      .WORD  OVER
      05A9' 1855 3005      .WORD  FFOR
      0681' 1857 3006      .WORD  ZEQL
      034C' 1859 3007      .WORD  ZBRCH
      184F' 185B 3008      .WORD  DIGS1
      0616' 185D 3009      .WORD  SEMIS
      185F 3010
      83 185F 3011      .BYTE  ^X83
2E 44 1860 3012      .ASCII  /D./          ; D,R
      D2 1862 3013      .BYTE  ^XD2
      184B' 1863 3014      .WORD  DIGS-5
      091C' 1865 3015      .WORD  NEST          DDDTR:
      0643' 1867 3016      .WORD  GR

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0775'	1869	3017		.WORD	SWAP	
0758'	186B	3018		.WORD	OVER	
1499'	186D	3019		.WORD	DABS	
17E4'	186F	3020		.WORD	BDIGS	
184D'	1871	3021		.WORD	DIGS	
180C'	1873	3022		.WORD	SIGN	
17F3'	1875	3023		.WORD	EDIGS	
0658'	1877	3024		.WORD	RG	
0758'	1879	3025		.WORD	OVER	
0B28'	187B	3026		.WORD	MINS	
17C7'	187D	3027		.WORD	SPACS	
0D6E'	187F	3028		.WORD	TYPE	
0616'	1881	3029		.WORD	SEMIS	
	1883	3030				
	82	1883	3031	.BYTE	^X82	
	2E	1884	3032	.BYTE	^X2E	;R
	D2	1885	3033	.BYTE	^XD2	
185F'	1886	3034		.WORD	DDOTR-6	
091C'	1888	3035	DDTR:	.WORD	NEST	
0643'	188A	3036		.WORD	GR	
1989'	188C	3037		.WORD	STOD	
0658'	188E	3038		.WORD	RG	
1865'	1890	3039		.WORD	DDOTR	
0616'	1892	3040		.WORD	SEMIS	
	1894	3041				
	82	1894	3042	.BYTE	^X82	
	44	1895	3043	.BYTE	^X44	;D.
	AE	1896	3044	.BYTE	^XAE	
1883'	1897	3045		.WORD	DOTR-5	
091C'	1899	3046	DDOT:	.WORD	NEST	
0959'	189B	3047		.WORD	ZERO	
1865'	189D	3048		.WORD	DDOTR	
0B6E'	189F	3049		.WORD	SPC	
0616'	18A1	3050		.WORD	SEMIS	
	18A3	3051				
	81	18A3	3052	.BYTE	^X81	
	AE	18A4	3053	.BYTE	^XAE	; (DOT)
1894'	18A5	3054		.WORD	DDOT-5	
091C'	18A7	3055	DOT:	.WORD	NEST	
1989'	18A9	3056		.WORD	STOD	
1899'	18AB	3057		.WORD	DDOT	
0616'	18AD	3058		.WORD	SEMIS	
	18AF	3059				
	81	18AF	3060	.BYTE	^X81	
	BF	18B0	3061	.BYTE	^XBF	;?
18A3'	18B1	3062		.WORD	DOT-4	
091C'	18B3	3063	QUES:	.WORD	NEST	
07D9'	18B5	3064		.WORD	AT	
18A7'	18B7	3065		.WORD	DOT	
0616'	18B9	3066		.WORD	SEMIS	
	18BB	3067				
	82	18BB	3068	.BYTE	^X82	
	55	18BC	3069	.BYTE	^X55	;U.
	AE	18BD	3070	.BYTE	^XAE	
18AF'	18BE	3071		.WORD	QUES-4	
091C'	18C0	3072	DDOT:	.WORD	NEST	
0959'	18C2	3073		.WORD	ZERO	

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1899' 18C4 3074      .WORD DDOT
0616' 18C6 3075      .WORD SEMIS
      18C8 3076
      85 18C8 3077      .BYTE ^X85
      D4 18CD 3079      .ASCII /VLIS/
188B' 18CE 3080      .BYTE ^XD4
      091C' 18D0 3081      .WORD UDUT=5
      0913' 18D2 3082      .WORD NEST
      0305' 18D4 3083      .WORD CR
      0080' 18D6 3084      .WORD LIT
      0A42' 18D8 3085      .WORD ^X80
      0A67' 18DC 3087      .WORD FOUT
      07D9' 18DE 3088      .WORD EX
      07D9' 18E0 3089      .WORD CNTX
      0A42' 18E2 3090      .WORD AT
      07D9' 18E4 3091      .WORD AT
      0305' 18E6 3092      .WORD FOUT
      0045' 18E8 3093      .WORD LIT
      0B4C' 18EA 3094      .WORD ^X45
      034C' 18EC 3095      .WORD GTR
      18F8' 18EE 3096      .WORD ZBRCH
      0913' 18F0 3097      .WORD VLIS2
      0959' 18F2 3098      .WORD CR
      0A42' 18F4 3099      .WORD ZERO
      0802' 18F6 3100      .WORD FOUT
      0791' 18F8 3101      .WORD EX
      10A0' 18FA 3102      .WORD DUP
      0B6E' 18FC 3103      .WORD ID
      0B6F' 18FE 3104      .WORD SPC
      0BFD' 1900 3105      .WORD SPC
      0BC9' 1902 3106      .WORD PFA
      07D9' 1904 3107      .WORD LFA
      0791' 1906 3108      .WORD AT
      0681' 1908 3109      .WORD DUP
      08CE' 190A 3110      .WORD ZEQAL
      05A9' 190C 3111      .WORD OTERM
      034C' 190E 3112      .WORD FFOR
      18E2' 1910 3113      .WORD ZBRCH
      0744' 1912 3114      .WORD VLIS1
      0616' 1914 3115      .WORD DROP
      1916 3116      .WORD SEMIS
      87 1916 3117      .BYTE ^X87
      45 4D 1917 3118      .ASCII /MESSAGE/
      C5 191D 3119      .BYTE ^XC5
      18C8' 191E 3120      .WORD VLIS2=8
      091C' 1920 3121      .WORD NEST
      0A01' 1922 3122      .WORD WRNG
      07D9' 1924 3123      .WORD AT
      034C' 1926 3124      .WORD ZBRCH
      1946' 1928 3125      .WORD MESS1
      087D' 192A 3126      .WORD MDUP
      034C' 192C 3127      .WORD ZBRCH
      1942' 192E 3128      .WORD MESS2
      0305' 1930 3129      .WORD LIT
      0004 1932 3130      .WORD 4

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0A59' 1934 3131 .WORD OFST
07D9' 1936 3132 .WORD AT
09AC' 1938 3133 .WORD BSCR
1627' 193A 3134 .WORD SLASH
0B28' 193C 3135 .WORD MINS
19D9' 193E 3136 .WORD DLINE
0R6E' 1940 3137 .WORD SPC
0335' 1942 3138 .WORD BRCH
1952' 1944 3139 .WORD MESS3
0DCF' 1946 3140 .WORD PDO
      07 1948 3141 .BYTE ^X07
      20 23 4D 20 1949 3142 .ASCII / MSG # /
      18A7' 1950 3143 .WORD DOT
      0616' 1952 3144 .WORD SEMIS
      1954 3145
      81 1954 3146 .BYTE ^X81
      C9 1955 3147 .BYTE ^XC9
      1916' 1956 3148 .WORD MSG-10
      195A' 1958 3149 I:
59 02 A0 195A 3150 .WORD I+2
69 68 B0 195D 3151 .WORD #2,R9
57 86 B0 1960 3152 .MOVW (R8),(R9)
5B 87 3C 1963 3153 .MOVW (R6)+,R7
      6B 17 1966 3154 .MOVZWL (R7)+,R11
      1968 3155 .JMP (R11)
      84 1968 3156 .BYTE ^X84
      52 41 57 1969 3157 .ASCII /WAR/
      CD 196C 3158 .BYTE ^XCD
      1954' 196D 3159 .WORD I-4
      1971' 196F 3160 .WORD WRM+2
      E940 CF 17 1971 3161 .JMP WARM
      1975 3162
      84 1975 3163 .BYTE ^X84
      4C 4F 43 1976 3164 .ASCII /COL/
      C4 1979 3165 .BYTE ^XC4
      1968' 197A 3166 .WORD WRM-7
      197E' 197C 3167 .WORD CLD+2
      E908 CF 17 197E 3168 .JMP COLD
      1982 3169
      84 1982 3170 .BYTE ^X84
      3E 2D 53 1983 3171 .ASCII /S->/
      C4 1986 3172 .BYTE ^XC4
      1975' 1987 3173 .WORD CLD-7
      198A' 1989 3174 .WORD STOD+2
      89 8000 RF B3 198B 3175 .HITW #^X8000,(R9)+
      0D 13 1990 3176 .SSKP
      69 FFFF RF B0 1992 3177 .MOVW #^XFFFF,(R9)
      57 H6 H0 1997 3178 .MOVW (R6)+,R7
      5B 87 3C 199A 3179 .MOVZWL (R7)+,R11
      6A 17 199D 3180 .JMP (P11)
      69 00 H0 199F 3181 .MOVW #0,(R9)
      57 H6 H0 19A2 3182 .MOVW (R6)+,R7
      5B 87 3C 19A5 3183 .MOVZWL (R7)+,R11
      6A 17 19A8 3184 .JMP (R11)
      19AA 3185
      45 4F 49 4C 28 19A8 3186 .BYTE ^X86
      19A8 3187 .ASCII /(LINE/

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! I

! WARM

! COLD

! S->D

! (LINE)

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A9 19B0 3188 ^XA9
1982' 19B1 3189 ^WORD STOD=7
091C' 19B3 3190 ^WORD NEST
0643' 19B5 3191 ^WORD GR
0305' 19B7 3192 ^WORD LIT
0040 19B9 3193 ^WORD ^X40
09A0' 19B8 3194 ^WORD RRIIF
164A' 19BD 3195 ^WORD SSMOD
0658' 19BF 3196 ^WORD RG
09AC' 19C1 3197 ^WORD BSCR
15FC' 19C3 3198 ^WORD STAP
06E7' 19C5 3199 ^WORD PLUS
1AB1' 19C7 3200 ^WORD BLOCK
06F7' 19C9 3201 ^WORD PLUS
0305' 19CB 3202 ^WORD LIT
0040 19CD 3203 ^WORD ^X40
0616' 19CF 3204 ^WORD SFMIS
19D1 3205
85 19D1 3206 ^X85
4E 49 4C 2E 19D2 3207 ^ASCII /.LIN/
C5 19D6 3208 ^BYTE ^XC5
19AA' 19D7 3209 ^WORD PLINE=9
091C' 19D9 3210 ^WORD NEST
19B3' 19DB 3211 ^WORD PLINE
0D9C' 19DD 3212 ^WORD TRLG
0D6E' 19DF 3213 ^WORD TYPE
0616' 19E1 3214 ^WORD SEMIS
19E3 3215
83 19E3 3216 ^BYTE ^X83
53 55 19E4 3217 ^ASCII /US/
C5 19E6 3218 ^BYTE ^XC5
19D1' 19E7 3219 ^WORD DLINE=8
092A' 19E9 3220 ^WORD VAR
A000 19EB 3221 ^WORD FIRSTB
19FD 3222
84 19ED 3223 ^BYTE ^X84
45 52 50 19EE 3224 ^ASCII /PRE/
D6 19F1 3225 ^BYTE ^XD6
19E3' 19F2 3226 ^WORD USE=6
092A' 19F4 3227 ^WORD VAR
A000 19F6 3228 ^WORD FIRSTB
19F8 3229
84 19F8 3230 ^BYTE ^X84
55 42 2B 19F9 3231 ^ASCII /+BU/
C6 19FC 3232 ^BYTE ^XC6
19FD' 19FD 3233 ^WORD PREV=7
091C' 19FF 3234 ^WORD NEST
09A0' 1A01 3235 ^WORD ARUF
0004 1A05 3236 ^WORD LIT
06E7' 1A07 3237 ^WORD 4
06E7' 1A07 3238 ^WORD PLUS
0791' 1A08 3239 ^WORD PLUS
0994' 1A0D 3241 ^WORD DUP
0R34' 1A0F 3242 ^WORD LIMIT
034C' 1A11 3243 ^WORD FOL
1A19' 1A13 3244 ^WORD ZBRCH
^WORD PRUF1

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! .LINE

! USE

! PREV

! +RUF

! ADVANCE BUFFER

```

0744' 1A15 3245 .WORD DROP
0988' 1A17 3246 .WORD FIRST
0791' 1A19 3247 PBUF1: .WORD DUP
19F4' 1A1B 3248 .WORD PREV
07D9' 1A1D 3249 .WORD AT
0B28' 1A1F 3250 .WORD MINS
0616' 1A21 3251 .WORD SEMIS
      1A23 3252
      86 1A23 3253 .BYTE ^X86
54 41 44 50 55 1A24 3254 .ASCII /UPDAT/ ;UPDATE
      C5 1A29 3255 .BYTE ^XC5
19F8' 1A2A 3256 .WORD PBUF-7
091C' 1A2C 3257 UPDAT: .WORD NEST
19F4' 1A2E 3258 .WORD PREV
07D9' 1A30 3259 .WORD AT
07D9' 1A32 3260 .WORD AT
0305' 1A34 3261 .WORD LIT
8000 1A36 3262 .WORD ^X8000
05A9' 1A38 3263 .WORD FFOR
19F4' 1A3A 3264 .WORD PREV
07D9' 1A3C 3265 .WORD AT
0802' 1A3E 3266 .WORD EX
0616' 1A40 3267 .WORD SEMIS
      1A42 3268
52 45 46 46 55 42 2D 59 54 50 4D 45 8D 1A42 3269 .BYTE ^X8D
      D3 1A4F 3271 .ASCII /EMPTY-BUFFER/ ;EMPTY-BUFFERS
1A23' 1A50 3272 .BYTE ^XD3
091C' 1A52 3273 MTBUF: .WORD UPDAT-9
0988' 1A54 3274 .WORD NEST
0994' 1A56 3275 .WORD FIRST
0758' 1A58 3276 .WORD LIMIT
0B28' 1A5A 3277 .WORD OVER
0EDF' 1A5C 3278 .WORD MINS
0616' 1A5E 3279 .WORD ERS
      1A60 3280
      86 1A60 3281 .BYTE ^X86
45 46 46 55 42 1A61 3282 .ASCII /BUFFE/ ;BUFFER
      D2 1A66 3283 .BYTE ^XD2
1A42' 1A67 3284 .WORD MTBUF-16
091C' 1A69 3285 BUFFE: .WORD NEST
19F9' 1A6B 3286 .WORD USE
07D9' 1A6D 3287 .WORD AT
0791' 1A6F 3288 .WORD DUP
0643' 1A71 3289 .WORD GR
19FF' 1A73 3290 BUFF1: .WORD PBUF
034C' 1A75 3291 .WORD ZBRCH
1A73' 1A77 3292 .WORD BUFF1
19F9' 1A79 3293 .WORD USE
0802' 1A7B 3294 .WORD EX
066C' 1A7D 3295 .WORD R
07D9' 1A7F 3296 .WORD AT
06C7' 1A81 3297 .WORD ZLESS
034C' 1A83 3298 .WORD ZARCH
1A99' 1A85 3299 .WORD BUFF2
066C' 1A87 3300 .WORD R
0ADC' 1A89 3301 .WORD PLUS2

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066C' 1A8B 3302      .WORD  R
07D9' 1A8D 3303      .WORD  AT
0305' 1A8F 3304      .WORD  LIT
7FFF' 1A91 3305      .WORD  ^X7FFF
0594' 1A93 3306      .WORD  FAND
0959' 1A95 3307      .WORD  ZERO
1B0F' 1A97 3308      .WORD  RSLW
066C' 1A99 3309      .WORD  R
0802' 1A9B 3310      .WORD  EX
066C' 1A9D 3311      .WORD  R
19F4' 1A9F 3312      .WORD  PREV
0802' 1AA1 3313      .WORD  EX
0658' 1AA3 3314      .WORD  RG
0ADC' 1AA5 3315      .WORD  PLUS2
0616' 1AA7 3316      .WORD  SEMIS
      1AA9 3317
      85 1AA9 3318      .BYTE  ^X85
43 4F 4C 1AAA 3319      .ASCII /BLOC/
      CB 1AAF 3320      .BYTE  ^XCB
      1A60' 1AAF 3321      .WORD  BUFFE-9
091C' 1AB1 3322      .WORD  NEST
0A59' 1AB3 3323      .WORD  OFST
07D9' 1AB5 3324      .WORD  AT
06E7' 1AB7 3325      .WORD  PLUS
0643' 1AB9 3326      .WORD  GR
19F4' 1ABB 3327      .WORD  PREV
07D9' 1ABD 3328      .WORD  AT
0791' 1ABF 3329      .WORD  DUP
07D9' 1AC1 3330      .WORD  AT
066C' 1AC3 3331      .WORD  R
0B28' 1AC5 3332      .WORD  MINS
0791' 1AC7 3333      .WORD  DUP
06E7' 1AC9 3334      .WORD  PLUS
034C' 1ACB 3335      .WORD  ZBRCH
1B01' 1ACD 3336      .WORD  BLOC1
19FF' 1ACF 3337      .WORD  PBUF
0681' 1AD1 3338      .WORD  ZEQAL
034C' 1AD3 3339      .WORD  ZBRCH
1AE9' 1AD5 3340      .WORD  BLOC3
0744' 1AD7 3341      .WORD  DROP
066C' 1AD9 3342      .WORD  R
1A69' 1ADR 3343      .WORD  BUFFE
0791' 1ADD 3344      .WORD  DUP
066C' 1ADF 3345      .WORD  R
0961' 1AE1 3346      .WORD  ONE
1B0F' 1AE3 3347      .WORD  RSLW
0969' 1AE5 3348      .WORD  TWO
0B28' 1AE7 3349      .WORD  MINS
0791' 1AE9 3350      .WORD  DUP
07D9' 1AEB 3351      .WORD  AT
066C' 1AED 3352      .WORD  R
0B28' 1AEF 3353      .WORD  MTNS
0791' 1AF1 3354      .WORD  DUP
06E7' 1AF3 3355      .WORD  PLUS
0681' 1AF5 3356      .WORD  ZEQAL
034C' 1AF7 3357      .WORD  ZBRCH
1ACF' 1AF9 3358      .WORD  BLOC2

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0791' 1AFB 3359      .WORD      DUP
19F4' 1AFD 3360      .WORD      PHEV
0802' 1AFF 3361      .WORD      EX
0658' 1B01 3362      .WORD      RG
0744' 1B03 3363      .WORD      DROP
0ADC' 1B05 3364      .WORD      PLUS2
0616' 1B07 3365      .WORD      SEMIS
      83 1B09 3367      .BYTE      ^X83
2F 52 1B0A 3368      .ASCII     ^R/^
      D7 1B0C 3369      .RYTE     ^XD7
1AA9' 1B0D 3370      .WORD      BLOCK=8
091C' 1B0F 3371      .WORD      NEST
0643' 1B11 3372      .WORD      GR
0791' 1B13 3373      .WORD      DUP
0305' 1B15 3374      .WORD      LIT
7FFF 1B17 3375      .WORD      ^X7FFF
0B4C' 1B19 3376      .WORD      GTR
034C' 1B1B 3377      .WORD      ZBRCH
1B31' 1B1D 3378      .WORD      GDNFWS
0658' 1B1F 3379      .WORD      RG
0744' 1B21 3380      .WORD      DROP
0744' 1B23 3381      .WORD      DROP
0305' 1B25 3382      .WORD      LIT
0001' 1B27 3383      .WORD      ^X1
0305' 1B29 3384      .WORD      LIT
000R 1B2R 3385      .WORD      ^X8
0C25' 1B2D 3386      .WORD      QERR
0616' 1B2F 3387      .WORD      SEMIS
0ABC' 1B31 3388      .WORD      BASE
07D9' 1B33 3389      .WORD      AT
0643' 1B35 3390      .WORD      GR
0D19' 1B37 3391      .WORD      MDCWL
19R9' 1B39 3392      .WORD      STOD
17E4' 1B3R 3393      .WORD      BDIGS
1R4D' 1B3D 3394      .WORD      DIGS
17F3' 1B3F 3395      .WORD      EDIGS
0658' 1B41 3396      .WORD      RG
0ARC' 1B43 3397      .WORD      BASE
0802' 1B45 3398      .WORD      EX
0658' 1B47 3399      .WORD      RG
034C' 1B49 3400      .WORD      ZBRCH
1R53' 1B4R 3401      .WORD      RSLW1
1B66' 1B4D 3402      .WORD      BLKRD
0335' 1B4F 3403      .WORD      BRCH
1B55' 1R51 3404      .WORD      RSLW2
1C0E' 1R53 3405      .WORD      BLKWT
0C25' 1R55 3406      .WORD      QERR
0616' 1R57 3407      .WORD      SEMIS
      0A 1R59 3408      .RYTE     ^X0A
41 45 52 2D 4R 43 4F 4C 42 1R5A 3410      .ASCII     /BLOCK=REA/
      C4 1R63 3411      .RYTE     ^XC4
1R09' 1R64 3412      .WORD      RSLW=6
1R6B' 1R66 3413      .WORD      BLKRD+2
5B 69 3C 1R68 3414      .MOVZWL  (R9),R11
5A 79 3C 1R6R 3415      .MOVZWL  =(R9),R10

```

INPUT FILENAME LENGTH IN R11
PR10 GFTS ADDRESS OF FILENAME

```

E707 CF 6A 5B RR 1B6E 3416
027D'CH E70E CF 04 28 1B70 3417
38 BA 1B7E 3418
DE 1B80 3419
50 E5C8 CF 5A 0D A0 1B85 3421
34 A0 5B 90 1B88 3422
50 E6A0 CF DE 1B8C 3423
24 A0 79 3C 1B91 3424
33 50 E9 1B95 3425
1BA0 3426
1RA3 3427
33 50 E9 1BAE 3428
1BB1 3429
33 50 E9 1BRC 3430
1BRF 3431
89 B4 1BCA 3432
69 B4 1BCC 3433
80 1BCE 3434
57 86 80 1BD0 3440
5B 87 3C 1BDF 3441
68 17 1BD4 3436
1BD6 3437
99 01 R0 1BD6 3438
69 08 80 1BD9 3439
57 86 80 1BDC 3440
5B 87 3C 1BDF 3441
68 17 1BE2 3442
1BE4 3443
89 01 R0 1BE4 3444
69 09 80 1BE7 3445
57 86 80 1BEA 3446
5B 87 3C 1BED 3447
68 17 1BF0 3448
89 01 R0 1BF2 3450
69 0A 80 1BF5 3451
57 86 80 1BF8 3452
5B 87 3C 1BFB 3453
68 17 1BFE 3454
1C00 3455
0B 1C00 3456
54 49 52 57 2D 4R 43 4F 4C 42 1C01 3457
C5 1C0H 3458
1B59' 1C0C 3459
1C10' 1C0F 3460
5B 69 3C 1C10 3461
5A 79 3C 1C13 3462
38 RB 1C16 3463
6A 5B 2R 1C18 3464
F666 CF 04 2R 1C1E 3465
3A RA 1C26 3466
50 E570 CF DE 1C28 3467
5B 0D A0 1C2D 3468
34 A0 5B 90 1C30 3469
50 E5B4 CF DE 1C34 3470
28 A0 79 3C 1C39 3471
1C3D 3472

PUSHR #M<R4,R3,R5>
MOVCS3 R11,(R10),BEGADR
MOVCS3 #4,FTHADR,BEGADR(R11)
POPR #M<R4,R3,R5>
MOVAL FAR_RBLOCK,R0
ADDW2 #XD,R11
MOV8 R11,FARSR_FNS(R0)
MOVAL FAR_RBLOCK,R0
MOVZWL -(R9),FARSL_URF(R0)
$OPEN FAR=FAR_RBLOCK
BLBC R0,BADNEWS
BLBC R0,BADNEWS1
BLBC R0,BADNEWS2
$GET RAR=RAR_RBLOCK
BLBC R0,BADNEWS2
$CLOSE FAR=FAR_RBLOCK
CLRW (R9)+
MOVW (R6)+,R7
MOVW (R7)+,R11
MOVZWL (R11)
JMP

BADNEWS:
MOVW #1,(R9)+
MOVW #8,(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP

BADNEWS1:
MOVW #1,(R9)+
MOVW #9,(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP

RADNEWS2:
MOVW #1,(R9)+
MOVW #XA,(R9)
MOVW (R6)+,R7
MOVZWL (R7)+,R11
JMP

BYTE ^X0B
ASCII /BLOCK=WRIT/
BYTE ^XC5
WORD BLKRD=13
WORD BLKWT+2
MOVZWL (R9),R11
MOVZWL -(R9),R10
PUSHR #M<R4,R3,R5>
MOVCS3 R11,(R10),BEGADR
MOVCS3 #4,FTHADR,BEGADR(R11)
POPR #M<R4,R3,R5>
MOVAL FAR_WBLOCK,R0
ADDW2 #XD,R11
MOV8 R11,FARSR_FNS(R0)
MOVAL FAR_WBLOCK,R0
MOVZWL -(R9),FARSL_URF(R0)
$CREATE FAR=FAR_WBLOCK

```

```

; PRODUCED BY <# # # >
; MOVE FILENAME TEXT
; MOVE FILETYPE TO END OF NAME
; MOVE FILENAME LENGTH INTO FAB
; MOVE BUFFER ADDRESS INTO RAB

```

```

; GIVES ERROR #8 IF UNABLE TO
; OPEN FILE ($OPEN FAILED)

```

```

; GIVES ERROR #9 IF UNABLE TO
; TO CONNECT FILE ($CONNECT
; FAILED)

```

```

; GIVES ERROR #10 IF UNABLE TO
; READ FILE ($GET FAILED)

```

		1C4R	3473	\$CONNECT	RAB=RAB_WBLOCK	
		1C53	3474	\$PUT	RAB=RAB_WBLOCK	
		1C5E	3475	\$CLOSE	FAB=FAB_WBLOCK	
89	B4	1C69	3476	CLRW	(R9)+	
69	B4	1C6B	3477	CLRW	(R9)	
57	86	R0 1C6D	3478	MOVW	(R6)+,R7	
5R	87	3C 1C70	3479	MOVZWL	(R7)+,R11	
	6B	17 1C73	3480	JMP	(R11)	
			1C75			
			3481			
		84 1C75	3482	.BYTE	^X84	
41	4F	4C 1C76	3483	.ASCII	/LOA/	;LOAD
		C4 1C79	3484	.BYTE	^XC4	
		1C00' 1C7A	3485	.WORD	BLKWT-14	
		091C' 1C7C	3486	.WORD	NEST	LOAD:
		0A2F' 1C7F	3487	.WORD	BLK	
		07D9' 1C80	3488	.WORD	AT	
		0643' 1C82	3489	.WORD	GR	
		0A38' 1C84	3490	.WORD	FIN	
		07D9' 1C86	3491	.WORD	AT	
		0643' 1C88	3492	.WORD	GR	
		0959' 1C8A	3493	.WORD	ZERO	
		0A38' 1C8C	3494	.WORD	FIN	
		0802' 1C8E	3495	.WORD	EX	
		09AC' 1C90	3496	.WORD	BSCR	
		15EC' 1C92	3497	.WORD	STAR	
		0A2F' 1C94	3498	.WORD	BLK	
		0802' 1C96	3499	.WORD	EX	
		1256' 1C98	3500	.WORD	INPT	
		0658' 1C9A	3501	.WORD	RG	
		0A38' 1C9C	3502	.WORD	FIN	
		0802' 1C9E	3503	.WORD	EX	
		0658' 1CA0	3504	.WORD	RG	
		0A2F' 1CA2	3505	.WORD	BLK	
		0802' 1CA4	3506	.WORD	EX	
		0616' 1CA6	3507	.WORD	SEMS	
			1CA8			
			3508			
		C3 1CA8	3509	.BYTE	^XC3	
2D	2D	1CA9	3510	.ASCII	/--/	;-->
		RE 1CAB	3511	.BYTE	^XBE	
		1C75' 1CAC	3512	.WORD	LOAD-7	
		091C' 1CAF	3513	.WORD	NEST	ARROW:
		0C9E' 1CR0	3514	.WORD	QLDG	
		0959' 1CR2	3515	.WORD	ZERO	
		0A38' 1CH4	3516	.WORD	FIN	
		0802' 1CR6	3517	.WORD	EX	
		09AC' 1CR8	3518	.WORD	BSCR	
		0A2F' 1CBA	3519	.WORD	BLK	
		07D9' 1CHC	3520	.WORD	AT	
		0758' 1CRE	3521	.WORD	OVER	
		163A' 1CC0	3522	.WORD	MODD	
		0828' 1CC2	3523	.WORD	MINS	
		0A2F' 1CC4	3524	.WORD	BLK	
		07A3' 1CC6	3525	.WORD	PLUS	
		0616' 1CC8	3526	.WORD	SEMS	
			1CCA			
			3527			
		R3 1CCA	3528	.BYTE	^X83	
52	44	1CCB	3529	.ASCII	/PR/	;DRU

```

      80 1CCD 3530      .BYTE  ^X80
1CA8' 1CCE 3531      .WORD  ARROW=6
091C' 1CD0 3532 DRZER: .WORD  NEST
0959' 1CD2 3533      .WORD  ZERO
0A59' 1CD4 3534      .WORD  OFST
0802' 1CD6 3535      .WORD  EX
0616' 1CD8 3536      .WORD  SEMTS
      1CDA 3537
      83 1CDA 3538      .BYTE  ^X83
52 44 1CDB 3539      .ASCII /DR/           ;DR1
      81 1CDD 3540      .BYTE  ^X81
1CCA' 1CDE 3541      .WORD  DRZER=6
091C' 1CE0 3542 DRONE: .WORD  NEST
09AC' 1CE2 3543      .WORD  BSCR
0305' 1CE4 3544      .WORD  LIT
00FA' 1CE6 3545      .WORD  ^XFA
15EC' 1CE8 3546      .WORD  STAR
0A59' 1CEA 3547      .WORD  OFST
0802' 1CEC 3548      .WORD  EX
0616' 1CEE 3549      .WORD  SEMIS
      1CF0 3550
      84 1CF0 3551      .BYTE  ^X84
53 49 4C 1CF1 3552      .ASCII /LIS/           ;LIST
      04 1CF4 3553      .BYTE  ^XD4
1CDA' 1CF5 3554      .WORD  DRONE=6
091C' 1CF7 3555 LIST:  .WORD  NEST
0D19' 1CF9 3556      .WORD  MDCML
0913' 1CFB 3557      .WORD  CR
0791' 1CFD 3558      .WORD  DUP
0A4C' 1CFE 3559      .WORD  FSCR
0802' 1D01 3560      .WORD  EX
0DCF' 1D03 3561      .WORD  PDQ
20 23 20 52 43 53 00' 1D05 3562 .ASCII /SCR # /
      06 1D05
18A7' 1D0C 3563      .WORD  DOT
0305' 1D0E 3564      .WORD  LIT
0010 1D10 3565      .WORD  ^X10
0959' 1D12 3566      .WORD  ZERO
03F8' 1D14 3567      .WORD  PDD
0913' 1D16 3568 LIST1: .WORD  CR
1958' 1D18 3569      .WORD  I
0305' 1D1A 3570      .WORD  LIT
0003 1D1C 3571      .WORD  3
1888' 1D1E 3572      .WORD  DOTR
0B6E' 1D20 3573      .WORD  SPC
1958' 1D22 3574      .WORD  I
0A4C' 1D24 3575      .WORD  FSCR
0709' 1D26 3576      .WORD  AT
1909' 1D28 3577      .WORD  DLINE
08CE' 1D2A 3578      .WORD  QTERM
034C' 1D2C 3579      .WORD  ZBRCH
1D32' 1D2E 3580      .WORD  LIST2
062B' 1D30 3581      .WORD  LVE
0377' 1D32 3582 LIST2: .WORD  LUPE
1D16' 1D34 3583      .WORD  LIST1
0913' 1D36 3584      .WORD  CR
0616' 1D38 3585      .WORD  SEMIS

```

45	44	4E	49	85	1D3A	3586
					1D3A	3587
					1D3B	3588
					1D3F	3589
					1CF0	1D40 3590
					091C	1D42 3591 INDEX:
					0913	1D44 3592
					0ACF	1D46 3593
					0775	1D48 3594
					03F8	1D4A 3595
					0913	1D4C 3596 INDE1:
					1958	1D4E 3597
					0305	1D50 3598
					0003	1D52 3599
					1888	1D54 3600
					086E	1D56 3601
					0959	1D58 3602
					1958	1D5A 3603
					19D9	1D5C 3604
					08CE	1D5E 3605
					034C	1D60 3606
					1D66	1D62 3607
					062B	1D64 3608
					0377	1D66 3609 INDE2:
					1D4C	1D68 3610
					0616	1D6A 3611
					1D6C	3612
					85	1D6C 3613
					54	1D6D 3614
41	49	52	54	C4	1D71	3615
					1D3A	1D72 3616
					091C	1D74 3617 TRIAD:
					0913	1D76 3618
					0305	1D78 3619
					0003	1D7A 3620
					1627	1D7C 3621
					0305	1D7E 3622
					0003	1D80 3623
					15EC	1D82 3624
					0305	1D84 3625
					0003	1D86 3626
					0758	1D88 3627
					06E7	1D8A 3628
					0775	1D8C 3629
					03F8	1D8E 3630
					0913	1D90 3631 TRIA1:
					1958	1D92 3632
					1CF7	1D94 3633
					08CF	1D96 3634
					034C	1D98 3635
					1D9E	1D9A 3636
					062B	1D9C 3637
					0377	1D9E 3638 TRIA2:
					1D90	1DA0 3639
					0913	1DA2 3640
					0305	1DA4 3641
					000F	1DA6 3642

.BYTE	^X85
.ASCII	/INDE/
.BYTE	^X88
.WORD	LIST-7
.WORD	NEST
.WORD	CR
.WORD	PLUS1
.WORD	SWAP
.WORD	PDO
.WORD	CR
.WORD	I
.WORD	LIT
.WORD	3
.WORD	DOTR
.WORD	SPC
.WORD	ZERO
.WORD	I
.WORD	DLINE
.WORD	QTERM
.WORD	ZBRCH
.WORD	INDE2
.WORD	LVE
.WORD	LUPE
.WORD	INDE1
.WORD	SEMIS
.BYTE	^X85
.ASCII	/TRIA/
.BYTE	^X84
.WORD	INDEX=8
.WORD	NEST
.WORD	CR
.WORD	LIT
.WORD	3
.WORD	SLASH
.WORD	LIT
.WORD	3
.WORD	STAR
.WORD	LIT
.WORD	3
.WORD	OVER
.WORD	PLUS
.WORD	SWAP
.WORD	PDO
.WORD	CR
.WORD	I
.WORD	LIST
.WORD	QTERM
.WORD	ZBRCH
.WORD	TRIA2
.WORD	LVE
.WORD	LUPF
.WORD	CR
.WORD	LIT
.WORD	^XF

fINDEX	
fTRIAD	

```

1920' 1DAB 3643      .WORD  MSG
0913' 1DAA 3644      .WORD  CR
0616' 1DAC 3645      .WORD  SEMIS
      1DAE 3646
      85 1DAF 3647      .BYTE  ^X85
53 55 4C 46 1DAF 3648      .ASCII /FLUS/           ;FLUSH
      CB 1DR3 3649      .BYTE  ^XC8
      1D6C' 1DR4 3650      .WORD  TRIAD-8
      091C' 1DR6 3651      .WORD  NEST      FLUSH:
      0994' 1DR8 3652      .WORD  LIMIT
      0988' 1DBA 3653      .WORD  FIRST
      0R2R' 1DBC 3654      .WORD  MINS
      09A0' 1DBE 3655      .WORD  BBUF
      0305' 1DC0 3656      .WORD  LIT
      0004 1DC2 3657      .WORD  4
      06E7' 1DC4 3658      .WORD  PLUS
      1627' 1DC6 3659      .WORD  SLASH
      0959' 1DC8 3660      .WORD  ZERO
      03F8' 1DCA 3661      .WORD  PDO
      0305' 1DCC 3662      .WORD  LIT      FL1:
      7FFF 1DCE 3663      .WORD  ^X7FFF
      1A69' 1DD0 3664      .WORD  BUFFE
      0744' 1DD2 3665      .WORD  DROP
      0377' 1DD4 3666      .WORD  LUPE
      1DCC' 1DD6 3667      .WORD  FL1
      0616' 1DD8 3668      .WORD  SEMIS
      1DDA 3669
      84 1DDA 3670      .BYTE  ^X84
53 41 54 1DDB 3671      .ASCII /TAS/           ;TASK
      CB 1DDE 3672      .BYTE  ^XC8
      1DAE' 1DDF 3673      .WORD  FLUSH-8
      091C' 1DE1 3674      .WORD  NEST      TASK:
      0616' 1DE3 3675      .WORD  SEMIS
      01 1DE5 3676      .WORD  NOP      FEND:
0000F000 1DE6 3677      .=^XF000
      F000 3678      .END  FORTH

```

\$\$,TAB	= 00000230 R	02	CRT1	000010FD R	02	EMIT	00000837 R	02
\$\$,TABEND	= 00000274 R	02	CRTE	000010D7 R	02	ENCL	000004C8 R	02
\$\$,TMP	= 00000000		CSP	00000AAA R	02	ENDD	0000173F R	02
\$\$,TMP1	= 00000001		CTLIC	00000084 R	02	ENDIFF	000016CA R	02
\$\$,TMP2	= 000000CF		CTRLCAST	000008F4 R	02	EOL	00000B34 R	02
\$\$T1	= 00000001		DABS	00001499 R	02	ERR1	00001066 R	02
ABORT	00001333 R	02	DAT	000014B3 R	02	ERROR	00001058 R	02
ABS	0000148A R	02	DCODE	0000115F R	02	ERS	00000EDF R	02
AGAIN	0000174D R	02	DCSP	00000C12 R	02	EX	00000802 R	02
ALLOT	00000AF8 R	02	DDOT	00001899 R	02	EXC	00000C57 R	02
ARROW	00001CAE R	02	DDOTR	00001865 R	02	EXE	0000031F R	02
AT	000007D9 R	02	DDROP	000014F5 R	02	EXPT	00000DEC R	02
BACK	000016AA R	02	DOUP	000014E5 R	02	EXPT1	00000E32 R	02
BAD	0000044C R	02	DELIM	000004FC R	02	EXPT2	00000E58 R	02
BADNEWS	00001806 R	02	DEVDISC	000000A5 R	02	EXPT3	00000E4A R	02
BADNEWS1	000018F4 R	02	DEX	000014CA R	02	EXPT4	00000DF6 R	02
BADNEWS2	000018F2 R	02	DFW	000012FF R	02	EXPT5	00000E4C R	02
BASE	00000ARC R	02	DGT	00000416 R	02	FABSB_BID	00000000	
BBUF	000009A0 R	02	DIG	00001822 R	02	FABSB_BKS	0000003E	
BCOMP	000013CF R	02	DIG1	0000183F R	02	FABSB_BLN	00000001	
BDIGS	000017E4 R	02	DIGS	0000184D R	02	FABSB_DNS	00000035	
BEGADR	0000027D R	02	DIGS1	0000184F R	02	FABSB_DSRMSK	0000004A	
BEGIN	00001688 R	02	DIS	00000AC6 R	02	FABSB_FAC	00000016	
BL	00000972 R	02	DLINE	000019D9 R	02	FABSB_FNS	00000034	
BLK	00000A2F R	02	DLTL	0000120D R	02	FABSB_FSZ	0000003F	
BLKRD	00001866 R	02	DLTL1	0000121D R	02	FABSB_ORG	0000001D	
BLKWT	00001C0E R	02	DMIN	0000072A R	02	FABSB_RAT	0000001F	
BLNK	00000EF0 R	02	DMINS	000014A6 R	02	FABSB_RFM	0000001F	
BLOC1	00001B01 R	02	DNONE	000006B7 R	02	FABSB_RTV	0000001C	
BLOC2	00001ACF R	02	DO	000016EC R	02	FABSB_SHR	00000017	
BLOC3	00001AE9 R	02	DOESG	000011C6 R	02	FABSC_BID	= 00000003	
BLOCK	00001AB1 R	02	DOK	00000433 R	02	FABSC_BLN	00000050	
BOK	000004B5 R	02	DQT	000018A7 R	02	FABSC_FIX	= 00000001	
BRCH	00000335 R	02	DOTQ	00001398 R	02	FABSC_HSH	= 00000030	
BSCR	000009AC R	02	DOTQ1	00001388 R	02	FABSC_IDX	= 00000020	
BUFF1	00001A73 R	02	DOTQ2	000013C0 R	02	FABSC_MAXRFM	= 00000006	
BUFF2	00001A99 R	02	DOTR	00001888 R	02	FABSC_REL	= 00000010	
BUFFE	00001A69 R	02	DIVER	00001519 R	02	FABSC_RFM_DFLT	= 00000002	
BYE	00001699 R	02	DP	00000A16 R	02	FABSC_SEQ	= 00000000	
CAT	000007EE R	02	DPL	00000A96 R	02	FABSC_STM	= 00000004	
CCMA	00000818 R	02	DPLUS	0000070E R	02	FABSC_STMCR	= 00000006	
CEX	0000081A R	02	DPM	00001478 R	02	FABSC_STMIF	= 00000005	
CFA	000008D9 R	02	DPM1	00001482 R	02	FABSC_HDF	= 00000000	
CL	0000097C R	02	DRONE	00001CF0 R	02	FABSC_VAR	= 00000002	
CLD	0000197C R	02	DROP	00000744 R	02	FABSC_VFC	= 00000003	
CMOVE	0000052E R	02	DRZER	00001CD0 R	02	FABSK_BLN	00000050	
CMPL	00000C88 R	02	DSL1	00001561 R	02	FABSL_ALQ	00000010	
CNST	0000117C R	02	DSL2	00001563 R	02	FABSL_CTX	00000018	
CNT	0000005B R	02	DSLAS	00001549 R	02	FABSL_DEV	00000040	
CNTX	00000A67 R	02	DSMOD	00001579 R	02	FABSL_DNA	00000030	
CODE	00000D45 R	02	DSTAR	00001530 R	02	FABSL_FNA	0000002C	
COLD	0000028D R	02	DSWAP	00001505 R	02	FABSL_FDP	00000004	
COLON	00001137 R	02	DUP	00000791 R	02	FABSL_JNL	00000020	
COMMA	00000807 R	02	DUZ1	000011D2 R	02	FABSL_MRM	00000038	
CONST	00000938 R	02	DZFOL	000006A3 R	02	FABSL_NAM	00000028	
CR	00000913 R	02	EDIGS	000017F3 R	02	FABSL_SDC	00000044	
CRNT	00000A75 R	02	ELSEF	00001794 R	02	FABSL_STS	00000008	

FIG-FORTH

VAX
 SYMBOL TABLE

FAR\$L_STV	0000000C	FABSV_RRO	= 00000006	FAND	00000594 R	02
FAR\$L_XAB	00000024	FABSV_CRT	= 00000015	FEND	00001DE5 R	02
FARSM_BIO	= 00000020	FABSV_CIF	= 00000019	FFOR	000005A9 R	02
FABSM_BLK	= 00000008	FABSV_CR	= 00000001	FIBSB_ALALIGN	00000021	
FABSM_BR0	= 00000040	FABSV_CTG	= 00000014	FIBSB_ALOPTS	00000020	
FABSM_CBT	= 00200000	FABSV_DEL	= 00000002	FIBSB_DID_NMX	0000000F	
FARSM_CIF	= 02000000	FARSV_DFW	= 00000005	FARSH_DID_RVN	0000000E	
FABSM_CR	= 00000002	FABSV_DIT	= 0000000C	FIBSB_FID_NMX	00000009	
FABSM_CTG	= 00100000	FARSV_DMO	= 00000000	FIBSB_FID_RVN	00000008	
FABSM_DEL	= 00000004	FABSV_ESC	= 0000001B	FIBSB_LOC_NMX	00000027	
FABSM_DFW	= 00000020	FARSV_EXE	= 00000007	FIBSB_LOC_RVN	00000026	
FABSM_DIT	= 00008000	FABSV_FTN	= 00000000	FIBSB_WSIZE	00000003	
FARSM_DMU	= 00001000	FARSV_GET	= 00000001	FIRSC_ACCDATA	0000000A	
FABSM_ESC	= 08000000	FABSV_INP	= 00000013	FIBSC_ADD_QUOTA	= 0000000B	
FARSM_EXE	= 00000080	FARSV_JNL	= 00000016	FIBSC_ALCDATA	0000002C	
FABSM_FTN	= 00000001	FABSV_KFO	= 0000001E	FIBSC_CYL	= 00000001	
FARSM_GET	= 00000002	FABSV_MSE	= 00000004	FIRSC_DIRDATA	00000016	
FARSM_INP	= 00080000	FABSV_MXV	= 00000001	FIBSC_DSA_QUOTA	= 0000000A	
FABSM_JNL	= 00400000	FABSV_NAM	= 00000018	FIBSC_ENA_QUOTA	= 00000009	
FABSM_KFO	= 40000000	FABSV_NEF	= 0000000A	FIBSC_EXA_QUOTA	= 0000000C	
FABSM_MSE	= 00000010	FARSV_NFS	= 00000010	FIRSC_EXTDATA	00000020	
FABSM_NAM	= 00000002	FABSV_NIL	= 00000005	FIBSC_ILLEGAL	= 00000005	
FABSM_MXV	= 01000000	FABSV_OFF	= 0000001D	FIBSC_LBN	= 00000002	
FABSM_NAM	= 00000000	FABSV_ORG	= 00000004	FIBSC_LENGTH	= 00000030	
FABSM_NEF	= 00000400	FABSV_POS	= 00000008	FIBSC_LOCK_VOL	= 00000007	
FABSM_NFS	= 00010000	FABSV_PPF	= 00000012	FIBSC_MOD_QUOTA	= 0000000D	
FABSM_NIL	= 00000020	FABSV_PPF_IND	= 0000000E	FIBSC_MTALEN	0000001C	
FABSM_OFF	= 20000000	FABSV_PPF_RAT	= 00000006	FIBSC_NEXTVOL	= 00000003	
FARSM_POS	= 00000100	FABSV_PRN	= 00000002	FIBSC_POSEND	= 00000002	
FARSM_PPF	= 00040000	FABSV_PUT	= 00000000	FIBSC_REMAP	= 00000010	
FABSM_PPF_IND	= 00004000	FABSV_RCK	= 00000017	FIBSC_REM_QUOTA	= 0000000E	
FABSM_PPF_RAT	= 00003FC0	FABSV_RWC	= 00000008	FIBSC_REWINDFIL	= 00000006	
FARSV_RWC	= 00000004	FABSV_RVO	= 00000007	FIBSC_REWINDVOL	= 00000001	
FARSM_PUT	= 00000001	FABSV_SCF	= 0000000E	FIBSC_RFI	= 00000004	
FABSM_RCK	= 00800000	FABSV_SHRDEL	= 00000002	FIBSC_SPACE	= 00000004	
FABSM_RWD	= 00000080	FABSV_SHRGET	= 00000001	FIBSC_UNLK_VOL	= 00000008	
FABSM_RWD	= 00000000	FARSV_SHRPUT	= 00000000	FIBSC_USEREOT	= 0000000F	
FABSM_SCF	= 00004000	FARSV_SHRUPD	= 00000003	FIBSC_VBN	00000003	
FABSM_SHRDEL	= 00000004	FARSV_SPL	= 0000000D	FIBSK_ACCDATA	0000000A	
FABSM_SHRGET	= 00000001	FABSV_SQ0	= 00000006	FIBSK_ALCDATA	0000002C	
FABSM_SHRUPD	= 00000008	FABSV_SIP	= 00000002	FIBSK_DIRDATA	00000016	
FARSM_SPL	= 00002000	FABSV_TEF	= 0000001C	FIBSK_EXTDATA	00000020	
FABSM_SUP	= 00000040	FABSV_TMD	= 00000004	FIBSK_LENGTH	00000030	
FARSM_SUP	= 00000004	FABSV_TMP	= 00000003	FIBSK_MTALEN	0000001C	
FARSM_TEF	= 10000000	FARSV_TRN	= 00000004	FIRSU_ACCTL	00000000	
FARSM_TMD	= 00000010	FARSV_UFM	= 0000001A	FIBSL_CNTRLVAL	00000018	
FARSM_TMP	= 00000008	FARSV_UFO	= 00000011	FIBSL_EXSZ	00000018	
FARSM_TRN	= 00000010	FARSV_UPD	= 00000003	FIBSL_EXVRN	0000001C	
FABSM_UFM	= 04000000	FARSV_UPT	= 00000006	FIBSL_LOC_ADDR	00000028	
FABSM_UFO	= 00020000	FARSV_WCK	= 00000009	FIBSL_WCC	00000010	
FABSM_UPD	= 00000008	FARSM_HLS	0000003C	FIBSM_ALCON	= 00000001	
FARSM_UPT	= 00000040	FARSM_DEF0	00000014	FIBSM_ALCONB	= 00000002	
FABSM_WCK	= 00000200	FARSM_GRC	00000048	FIBSM_ALDEF	= 00000008	
FABSM_DEF0	= 00000004	FARSM_IFI	00000002	FIBSM_ALINAM	= 00000020	
FABSM_DEF1	= 00000008	FARSM_MRS	00000036	FIBSM_ALLOCATR	= 00000010	
FABSM_DEF2	= 00000004	FARSM_PPF_RAT	00000005	FIBSM_ALLTYP	= 00000010	
FARSM_BIO	= 00000005	FAR_RBL0CK	0000014C R	FIBSM_ALLVER	= 00000008	
FARSM_RLK	= 00000003	FAR_RBL0CK	0000019C R			

FIG-FORTH

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 SYMBOL TABLE

FIBSM_ALL_GRP	=	00000002	FIBSV_FILCON	=	00000002	FLD	00000AA0	R	02
FIBSM_ALL_MEM	=	00000001	FIBSV_FINDFID	=	0000000B	FLUSH	00001D86	R	02
FIBSM_BLK_LOCK	=	00000004	FIBSV_HIGHER	=	0000000F	FNCE	00000A0D	R	02
FIBSM_CURPOS	=	00000010	FIBSV_LOWER	=	0000000F	FORG	0000142B	R	02
FIBSM_DLOCK	=	00000002	FIBSV_MARKBAD	=	0000000A	FORTH	00000000	RG	02
FIBSM_EXACT	=	00000001	FIBSV_MOD_OVER	=	00000004	FOUND	000004A1	R	02
FIBSM_EXECUTE	=	00010000	FIBSV_MOD_PFRM	=	00000003	FOUT	00000A42	R	02
FIBSM_EXTEND	=	00000080	FIBSV_MOD_USE	=	00000002	FRST	000004E8	R	02
FIBSM_FILCON	=	00000004	FIBSV_NFWFR	=	00000009	FRTH	000012CF	R	02
FIBSM_FINDFID	=	00000800	FIBSV_NOCHARGE	=	0000000F	FSCR	00000A4C	R	02
FIBSM_HIGHER	=	00000800	FIBSV_NOHDREXT	=	00000009	FSPAT	000005CF	R	02
FIBSM_LOWER	=	00004000	FIBSV_NOLOCK	=	00000014	FTHADR	00000289	R	02
FIBSM_MARKBAD	=	00000400	FIBSV_NOREAD	=	0000000A	FXOR	000005BC	R	02
FIBSM_MOD_OVER	=	00000010	FIBSV_NORECORD	=	00000015	GDNEWS	00001B31	R	02
FIBSM_MOD_PERM	=	00000008	FIBSV_NOTRUNC	=	0000000B	GR	00000643	R	02
FIBSM_MOD_USE	=	00000004	FIBSV_NOWRITE	=	00000000	GTR	00000B4C	R	02
FIBSM_NEWVER	=	00000200	FIBSV_ONCYL	=	00000001	HERE	00000AEB	R	02
FIBSM_NOCHARGE	=	00008000	FIBSV_ONSRV_ATR	=	00000011	HOLD	00000AEB	R	02
FIBSM_NOHDREXT	=	00000200	FIBSV_READCK	=	00000009	I	00000EFF	R	02
FIBSM_NOLOCK	=	00100000	FIBSV_REWIND	=	00000003	IFF	00001958	R	02
FIBSM_NOREAD	=	00000400	FIBSV_RMSLOCK	=	00000012	IMMED	000010A0	R	02
FIBSM_NORECORD	=	00200000	FIBSV_SEOONLY	=	00000006	INDE1	000013EC	R	02
FIBSM_NOTRUNC	=	00000800	FIBSV_SPOOL	=	00000004	INDE2	00001D66	R	02
FIBSM_NOWRITE	=	00000001	FIBSV_SUPERSEDE	=	0000000A	INPT	00001D42	R	02
FIBSM_ONCYL	=	00000002	FIBSV_TRUNC	=	00000008	IOSK_LOOPTEST	00001256	R	02
FIBSM_PKSRV_ATR	=	00020000	FIBSV_WILD	=	00000008	IOSK_PP8SC	=	0000E000	
FIBSM_READCK	=	00000200	FIBSV_WRITE	=	00000008	IOSK_SRRUNOUT	=	00002000	
FIBSM_REWIND	=	00000008	FIBSV_WRITECK	=	00000005	IOSM_ABORT	=	00000100	
FIBSM_RMSLOCK	=	00040000	FIBSV_WRTITHRU	=	00000013	IOSM_ACCESS	=	00000080	
FIBSM_SEOONLY	=	00000040	FIBSM_ALLOC	=	00000022	IOSM_ATNAST	=	00000100	
FIBSM_SPOOL	=	00000010	FIBSM_CNTRIFUNC	=	00000016	IOSM_BINARY	=	00000040	
FIBSM_SUPERSEDE	=	00000400	FIBSM_DID	=	0000000A	IOSM_CANCTRL0	=	00000040	
FIBSM_UPDATE	=	00000100	FIBSM_DJD_NUM	=	0000000A	IOSM_CECYL	=	00000400	
FIBSM_WILD	=	00000100	FIBSM_DJD_RVN	=	0000000E	IOSM_CLEAR	=	00001000	
FIBSM_WRITE	=	00000100	FIBSM_DJD_SFQ	=	0000000C	IOSM_CUR_COUNT	=	00000400	
FIBSM_WRITECK	=	00000020	FIBSM_EXCTL	=	00000016	IOSM_CNTRLENTRY	=	00000080	
FIBSM_WRTITHRU	=	00000000	FIBSM_FID	=	00000004	IOSM_CREATE	=	00000080	
FIBSS_ALLOC	=	0000000A	FIBSM_FID_NUM	=	00000004	IOSM_CTRL	=	00000200	
FIBSS_DID	=	00000006	FIBSM_FID_RVN	=	00000008	IOSM_CTRLCAST	=	00000100	
FIBSS_FID	=	00000006	FIBSM_FID_SEQ	=	00000006	IOSM_CTRLYAST	=	00000080	
FIBSS_LOC_FID	=	00000006	FIBSM_LOC_FID	=	00000027	IOSM_CVTLOW	=	00000100	
FIBSV_ALCON	=	00000000	FIBSM_LOC_NUM	=	00000022	IOSM_CYCLE	=	00001000	
FIBSV_ALCONB	=	00000001	FIBSM_LOC_RVN	=	00000026	IOSM_DATACHECK	=	00001000	
FIBSV_ALDFF	=	00000003	FIBSM_LOC_SEQ	=	00000024	IOSM_DATAPATH	=	00004000	
FIBSV_ALLNAM	=	00000005	FIBSM_LOC_SEQ	=	00000014	IOSM_DELETE	=	00000040	
FIBSV_ALLOCATR	=	00000004	FIBSM_NMCTL	=	0000002C	IOSM_DELDATA	=	00000040	
FIBSV_ALLTYP	=	00000004	FIBSM_VERLIMIT	=	00000008	IOSM_DELETE	=	00000100	
FIBSV_ALLVER	=	00000003	FILL	=	00000000	IOSM_DIAGNOSTIC	=	00000100	
FIBSV_ALL_GRP	=	00000001	FILNAM	=	00000274	IOSM_DMOUNT	=	00000400	
FIBSV_BLK_LOCK	=	00000000	FILSIZ	=	00000019	IOSM_DSARLMBX	=	00000400	
FIBSV_CURPOS	=	00000000	FIN	=	00000A38	IOSM_ENARLMBX	=	00000080	
FIBSV_DLOCK	=	00000002	FIND	=	00000460	IOSM_ENARL_ALT	=	00000080	
FIBSV_EXACT	=	00000001	FIND1	=	0000046A	IOSM_ENARL_ALT	=	00000080	
FIBSV_EXECUTE	=	00010000	FIND2	=	00000476	IOSM_ENARL_ALT	=	00000080	
FIBSV_EXTEND	=	00000080	FIRST	=	00000988	IOSM_ENARL_ALT	=	00000080	
FIBSV_FILCON	=	00000004	FIRSTB	=	00000A00	IOSM_ENARL_ALT	=	00000080	
FIBSV_FINDFID	=	00000800	FL1	=	000001DCC	IOSM_ENARL_ALT	=	00000080	
FIBSV_HIGHER	=	00000800							
FIBSV_LOWER	=	00004000							
FIBSV_MARKBAD	=	00000400							
FIBSV_MOD_OVER	=	00000010							
FIBSV_MOD_PERM	=	00000008							
FIBSV_MOD_USE	=	00000004							
FIBSV_NEWVER	=	00000200							
FIBSV_NOCHARGE	=	00008000							
FIBSV_NOHDREXT	=	00000200							
FIBSV_NOLOCK	=	00100000							
FIBSV_NOREAD	=	00000400							
FIBSV_NORECORD	=	00200000							
FIBSV_NOTRUNC	=	00000800							
FIBSV_NOWRITE	=	00000001							
FIBSV_ONCYL	=	00000002							
FIBSV_PKSRV_ATR	=	00020000							
FIBSV_READCK	=	00000200							
FIBSV_REWIND	=	00000008							
FIBSV_RMSLOCK	=	00040000							
FIBSV_SEOONLY	=	00000040							
FIBSV_SPOOL	=	00000010							
FIBSV_SUPERSEDE	=	00000400							
FIBSV_UPDATE	=	00000100							
FIBSV_WILD	=	00000100							
FIBSV_WRITE	=	00000100							
FIBSV_WRITECK	=	00000020							
FIBSM_WRTITHRU	=	00000000							
FIBSS_ALLOC	=	0000000A							
FIBSS_DID	=	00000006							
FIBSS_FID	=	00000006							
FIBSS_LOC_FID	=	00000006							
FIBSV_ALCON	=	00000000							
FIBSV_ALCONB	=	00000001							
FIBSV_ALDFF	=	00000003							
FIBSV_ALLNAM	=	00000005							
FIBSV_ALLOCATR	=	00000004							
FIBSV_ALLTYP	=	00000004							
FIBSV_ALLVER	=	00000003							
FIBSV_ALL_GRP	=	00000001							
FIBSV_BLK_LOCK	=	00000000							
FIBSV_CURPOS	=	00000000							
FIBSV_DLOCK	=	00000002							
FIBSV_EXACT	=	00000001							
FIBSV_EXECUTE	=	00000080							
FIBSV_EXTEND	=	00000080							

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SYMBOL TABLE

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21-SEP-1982 12:36:06 VAX-11 MACRO V03-00 PAGE 69
21-SEP-1982 12:35:52 USERSDISK:(MERCER,FORTH)VAXFORTH.M(1)

IOSM_ESCAPE = 00004000
IOSM_EXTEND = 00008000
IOSM_FCODE = 0000003F
IOSM_FORCE = 00000040
IOSM_HANGUP = 00000200
IOSM_INCLUDE = 00000800
IOSM_INHERLOG = 00000800
IOSM_INHEXTGAP = 00001000
IOSM_INHRETRY = 00008000
IOSM_INHSEEK = 00001000
IOSM_INTCLOCK = 00001000
IOSM_INTERRUPT = 00000040
IOSM_INTSKIP = 00000100
IOSM_LASTBLOCK = 00000400
IOSM_LINE_OFF = 00000200
IOSM_LINE_ON = 00000800
IOSM_LOOP = 00000080
IOSM_LOOP_EXT = 00001000
IOSM_LPBEXT = 00002000
IOSM_LPBINT = 00004000
IOSM_MAINT = 00000040
IOSM_MAINTLOOP = 00000200
IOSM_MORE = 00000040
IOSM_MOUNT = 00000200
IOSM_MOVETRACKD = 00000080
IOSM_MULTIPLE = 00000100
IOSM_NOCTSWAIT = 00000040
IOSM_NODSRWAIT = 00000100
IOSM_NOECHO = 00000040
IOSM_NOFILTR = 00000200
IOSM_NOFORMAT = 00000100
IOSM_NOMRSP = 00000040
IOSM_NOW = 00000040
IOSM_NOWAIT = 00000080
IOSM_OPPOSITE = 00000200
IOSM_OUTHAND = 00000400
IOSM_PACKED = 00000080
IOSM_PURGE = 00000800
IOSM_QUALIFIED = 00000080
IOSM_RD_COUNT = 00000100
IOSM_RD_MEM = 00000040
IOSM_RD_MODEM = 00000080
IOSM_READATTN = 00000080
IOSM_READCSR = 00008000
IOSM_REDIRECT = 00000040
IOSM_REFRESH = 00002000
IOSM_RESET = 00000800
IOSM_REVERSE = 00000040
IOSM_SETBSIZE = 00000200
IOSM_SETCUADR = 00000100
IOSM_SETENQCNT = 00000800
IOSM_SETEVF = 00000040
IOSM_SETFNCT = 00000200
IOSM_SETPOOLSZ = 00000400
IOSM_SETPROT = 00000200
IOSM_SET_MODEM = 00000400
IOSM_SHUTDOWN = 00000080

IOSM_SKPSECINH = 00000200
IOSM_SLAVLOOP = 00000080
IOSM_STARTUP = 00000040
IOSM_SWAP = 00000400
IOSM_SYNCH = 00000200
IOSM_TIMED = 00000080
IOSM_TRMNOECHO = 00001000
IOSM_TYPEAHD CNT = 00000040
IOSM_UNLOOP = 00000100
IOSM_WORD = 00000040
IOSM_WRTATTN = 00000100
IOSV_FCODE = 00000006
IOSV_ABORT = 00000008
IOSV_ACCEPT = 00000007
IOSV_ACCESS = 00000006
IOSV_ATTNAST = 00000008
IOSV_BINARY = 00000006
IOSV_CANCTRLIO = 00000006
IOSV_CECYL = 0000000A
IOSV_CLEAR = 0000000C
IOSV_CLR_COUNT = 0000000A
IOSV_CNTRIENTRY = 00000007
IOSV_COMMOD = 00000006
IOSV_CREATE = 00000007
IOSV_CTRL = 00000009
IOSV_CTRLCAST = 00000008
IOSV_CTRLFAST = 00000007
IOSV_CVTLOW = 00000008
IOSV_CYCLE = 0000000C
IOSV_DATACHECK = 0000000F
IOSV_DATAPATH = 0000000A
IOSV_DELDATA = 00000006
IOSV_DELETE = 00000008
IOSV_DIAGNOSTIC = 00000008
IOSV_DMOUNT = 0000000A
IOSV_DSABLMBX = 0000000A
IOSV_DSABL_ALT = 0000000C
IOSV_ENABLMBX = 00000007
IOSV_ENABL_ALT = 0000000B
IOSV_ESCAPE = 0000000E
IOSV_EXTEND = 0000000F
IOSV_FCODE = 00000000
IOSV_FORCE = 00000006
IOSV_HANGUP = 00000009
IOSV_INCLUDE = 00000008
IOSV_INHERLOG = 00000008
IOSV_INHEXTGAP = 0000000C
IOSV_INHRETRY = 0000000F
IOSV_INHSEEK = 0000000C
IOSV_INTCLOCK = 0000000C
IOSV_INTERRUPT = 00000006
IOSV_INTSKIP = 00000008
IOSV_LASTBLOCK = 0000000A
IOSV_LINE_OFF = 00000009
IOSV_LINE_ON = 00000008
IOSV_LOOP = 00000007
IOSV_LOOP_EXT = 0000000C

IOSV_LPBEXT = 00000000
IOSV_LPBINT = 0000000E
IOSV_MAINT = 00000006
IOSV_MAINTLOOP = 00000009
IOSV_MORE = 00000006
IOSV_MOUNT = 00000009
IOSV_MOVETRACKD = 00000007
IOSV_MULTIPLE = 00000008
IOSV_NOCTSWAIT = 00000006
IOSV_NODSRWAIT = 00000008
IOSV_NOECHO = 00000006
IOSV_NOFILTR = 00000009
IOSV_NOFORMAT = 00000008
IOSV_NOMRSP = 00000006
IOSV_NOW = 00000006
IOSV_NOWAIT = 00000007
IOSV_OPPOSITE = 00000009
IOSV_OUTBAND = 0000000A
IOSV_PACKED = 00000007
IOSV_PURGE = 0000000B
IOSV_QUALIFIED = 00000007
IOSV_RD_COUNT = 00000008
IOSV_RD_MEM = 00000006
IOSV_RD_MODEM = 00000007
IOSV_READATTN = 00000007
IOSV_READCSR = 0000000F
IOSV_REDIRECT = 00000006
IOSV_REFRESH = 0000000D
IOSV_RESET = 00000008
IOSV_REVERSE = 00000006
IOSV_SETBSIZE = 00000009
IOSV_SETCUADR = 00000008
IOSV_SETENQCNT = 00000008
IOSV_SETEVF = 00000006
IOSV_SETFNCT = 00000009
IOSV_SETPOOLSZ = 0000000A
IOSV_SETPROT = 00000009
IOSV_SET_MODEM = 0000000A
IOSV_SHUTDOWN = 00000007
IOSV_SKPSECINH = 00000009
IOSV_SLAVLOOP = 00000007
IOSV_STARTUP = 00000006
IOSV_SWAP = 0000000A
IOSV_SYNCH = 00000009
IOSV_TIMED = 00000007
IOSV_TRMNOECHO = 0000000C
IOSV_TYPEAHD CNT = 00000006
IOSV_UNLOOP = 00000008
IOSV_WORD = 00000006
IOSV_WRTATTN = 00000008
IOS_ACCESS = 00000032
IOS_ACPCONTROL = 00000038
IOS_AVAILABLE = 00000011
IOS_CLEAN = 0000001E
IOS_CONINTREAD = 0000003C
IOS_CONINTWRITE = 0000003D
IOS_CREATE = 00000033

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SYMBOL TABLE

FIG-FORTH

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VAX-11 MACRO V03-00
USERSDISK:[MERCER,FORTH]VAXFORTH.M(1)

IOS_DEACCESS = 00000034
 IOS_DELETE = 00000035
 IOS_DIAGNOSE = 0000001D
 IOS_DRVCLR = 00000004
 IOS_DSE = 00000015
 IOS_ENDRU1 = 0000003A
 IOS_ENDRU2 = 0000003B
 IOS_ERASETAPE = 00000006
 IOS_FORCE = 00000037
 IOS_FORMAT = 0000001E
 IOS_INITIALIZE = 00000004
 IOS_LOAD*CODE = 00000001
 IOS_LOGICAL = 0000002F
 IOS_MODIFY = 00000036
 IOS_MOUNT = 00000039
 IOS_NETCONTROL = 00000036
 IOS_NOP = 00000000
 IOS_OFFSET = 00000006
 IOS_PACKACK = 0000000R
 IOS_PHYSICAL = 0000001F
 IOS_QSTOP = 00000007
 IOS_RDSTATS = 0000000D
 IOS_READHEAD = 0000000E
 IOS_READINIT = 0000003C
 IOS_READBLK = 00000021
 IOS_READPBLK = 0000000C
 IOS_READPRESET = 00000019
 IOS_READPROMPT = 00000037
 IOS_READTRACKD = 00000010
 IOS_READVRLK = 00000031
 IOS_RECAL = 00000003
 IOS_RELEASE = 00000005
 IOS_REREADN = 00000016
 IOS_REREADP = 00000017
 IOS_RETCENTER = 00000007
 IOS_REWIND = 00000024
 IOS_REWINDOFF = 00000022
 IOS_SEARCH = 00000009
 IOS_SEEK = 00000002
 IOS_SENSECHAR = 0000001B
 IOS_SENSEMODE = 00000027
 IOS_SFCHAR = 0000001A
 IOS_SFCLCK = 00000037
 IOS_SFCLCKP = 00000005
 IOS_SFT*MODE = 00000023
 IOS_SKIPFILE = 00000025
 IOS_SKIPRECORD = 00000026
 IOS_SPACEFILE = 00000002
 IOS_SPACE*RECORD = 00000009
 IOS_STARTDATA = 00000038
 IOS_STARTDATAP = 00000006
 IOS_START*PROC = 00000002
 IOS_START*SPNDL = 00000019
 IOS_STOP = 00000003
 IOS_TTYREADALL = 0000003A
 IOS_TTYREADPALI = 00000038
 IOS_UNLOAD = 00000001

IOS_VIRTUAL = 0000003F
 IOS_WRITECHECK = 0000000A
 IOS_WRITECHECKH = 00000018
 IOS_WRITEHEAD = 0000000D
 IOS_WRITEBLK = 00000020
 IOS_WRITE*MARK = 0000001C
 IOS_WRITE*OF = 00000028
 IOS_WRITE*PLK = 0000000B
 IOS_WRITE*RET = 00000018
 IOS_WRITE*TRACKD = 0000000F
 IOS_WRITE*VRLK = 00000030
 IOS_WRITE*MKR = 0000001D
 KEY = 00000884 R 02
 LR = 00000CCE R 02
 LBLD = 000011B6 R 02
 LESS = 00000R40 R 02
 LFA = 00000BC9 R 02
 LIMIT = 00000994 R 02
 LIMITB = 00000R010
 LIST = 00001CF7 R 02
 LIST1 = 00001D16 R 02
 LIST2 = 00001D32 R 02
 LIT = 00000305 R 02
 LOAD = 00001C7C R 02
 LOOP = 000016FF R 02
 LOP1 = 000004D7 R 02
 LOP2 = 000004EB R 02
 LT1 = 00001200 R 02
 LTL = 000011F0 R 02
 LTST = 000008B9 R 02
 LUPE = 00000377 R 02
 LUPE2 = 00000390 R 02
 LUUP = 0000053C R 02
 LIVE = 0000062B R 02
 MAX = 00001585 R 02
 MAX1 = 00001593 R 02
 MDC*ML = 00000D19 R 02
 MDUP = 00000R7D R 02
 MESS1 = 00001946 R 02
 MESS2 = 00001942 R 02
 MESS3 = 00001952 R 02
 MF1 = 0000103E R 02
 MFIND = 0000101E R 02
 MHEX = 00000D03 R 02
 MIN = 00001088 R 02
 MINS = 00000828 R 02
 MINUS = 000006FC R 02
 MN1 = 00001096 R 02
 MDDD = 0000163A R 02
 MON = 00001689 R 02
 MPLUS = 0000159C R 02
 MSG = 00001920 R 02
 MSLAS = 000015C6 R 02
 MS*UD = 0000166D R 02
 MSTAR = 000015A9 R 02
 MTRUF = 00001A52 R 02
 NADDR = 000000A9 R 02

NAMSB_BID = 00000000
 NAMSB_BLN = 00000001
 NAMSB_DEV = 00000039
 NAMSB_DJD_NMX = 0000002F
 NAMSB_DID_RVN = 0000002E
 NAMSB_DIR = 0000003A
 NAMSB_ESL = 0000000B
 NAMSB_ESS = 0000000A
 NAMSB_FID_NMX = 00000029
 NAMSB_FID_RVN = 00000028
 NAMSB_NAME = 0000003B
 NAMSB_NODE = 00000038
 NAMSB_NOP = 00000008
 NAMSB_RFS = 00000009
 NAMSB_RSL = 00000003
 NAMSB_RSS = 00000002
 NAMSB_TYPE = 0000003C
 NAMSB_VER = 0000003D
 NAMSC_BID = 00000002
 NAMSC_BLN = 00000060
 NAMSC_BLN_DIRWC = 00000060
 NAMSC_BLN_V2 = 00000038
 NAMSC_DVI = 00000010
 NAMSC_FCS11 = 00000004
 NAMSC_MAXRSS = 000000FC
 NAMSC_MAXRSSLCL = 000000FC
 NAMSC_RMS11 = 00000001
 NAMSC_RMS20 = 00000002
 NAMSC_RMS32 = 00000003
 NAMSC_RT11FS = 00000005
 NAMSC_TOPS10FS = 00000008
 NAMSC_TOPS20FS = 00000007
 NAMSC_UFS = 00000000
 NAMSK_BLN = 00000060
 NAMSK_BLN_DIRWC = 00000060
 NAMSK_BLN_V2 = 00000038
 NAMSL_DEV = 00000044
 NAMSL_DIR = 00000048
 NAMSL_ESA = 0000000C
 NAMSL_FNB = 00000034
 NAMSL_NAME = 0000004C
 NAMSL_NODE = 00000040
 NAMSL_RLF = 00000010
 NAMSL_RSA = 00000004
 NAMSL_TYPE = 00000050
 NAMSL_VER = 00000054
 NAMSL_WCC = 00000030
 NAMSM_CNCL_DEV = 00001000
 NAMSM_DIR_LVLIS = 00E00000
 NAMSM_EXP_DEV = 00000080
 NAMSM_EXP_DIR = 00000040
 NAMSM_EXP_NAME = 00000004
 NAMSM_EXP_TYPE = 00000002
 NAMSM_EXP_VER = 00000001
 NAMSM_GRP_MBR = 00080000
 NAMSM_HIGHVER = 00008000
 NAMSM_IFJ = 00010000

NAMSM_LOWVER	=	00004000	NAMSV_WILD_SFD3=	0000001B	PNM2	0000FB9	R	02	
NAMSM_NODE	=	00020000	NAMSV_WILD_SFD4=	0000001C	PNMBR	0000F7B	R	02	
NAMSM_PPF	=	00010000	NAMSV_WILD_SFD5=	0000001D	PORGN	000009C7	R	02	
NAMSM_PWD	=	00000001	NAMSV_WILD_SFD6=	0000001E	PREV	000019F4	R	02	
NAMSM_QUOTED	=	00040000	NAMSV_WILD_SFD7=	0000001F	PT1	0000127A	R	02	
NAMSM_ROD	=	00000002	NAMSV_WILD_TYPE=	00000004	PT2	00001270	R	02	
NAMSM_ROOT_DIR	=	00002000	NAMSV_WILD_UFD =	00000018	PT3	00001274	R	02	
NAMSM_SOD	=	00000004	NAMSV_WILD_VER =	00000003	PT4	00001294	R	02	
NAMSM_SRCHNMF	=	40000000	NAMSW_DID	0000002A	PT5	0000128E	R	02	
NAMSM_SVCTX	=	80000000	NAMSW_DJD_NUM	0000002A	PT6	00001292	R	02	
NAMSM_WILDCARD	=	00000100	NAMSW_DID_RVN	0000002E	PUTF	000002BA	R	02	
NAMSM_WILD_DIR	=	00100000	NAMSW_DID_SEQ	0000002C	Q1	00001325	R	02	
NAMSM_WILD_GRP	=	01000000	NAMSW_FID	00000024	Q2	0000130C	R	02	
NAMSM_WILD_WBR	=	02000000	NAMSW_FID_NUM	00000024	QCMP	00000C3F	R	02	
NAMSM_WILD_NAME=	00000020	NAMSW_FID_RVN	00000028	QCSP	00000C81	R	02		
NAMSM_WILD_SFD1=	02000000	NAMSW_FID_SEQ	00000026	QERR	00000C25	R	02		
NAMSM_WILD_SFD2=	04000000	NAMBLK	000000EC	R	02	QLDG	00000C9E	R	02
NAMSM_WILD_SFD3=	08000000	NAME	000000AD	R	02	QPR	00000C6E	R	02
NAMSM_WILD_SFD4=	10000000	NEST	00000091C	R	02	QSTK	00001228	R	02
NAMSM_WILD_SFD5=	20000000	NFA	000000BE7	R	02	QTERM	000008CE	R	02
NAMSM_WILD_SFD6=	40000000	NLEN	000000A5	R	02	QUER	00000E6A	R	02
NAMSM_WILD_SFD7=	80000000	NMB1	000000FE4	R	02	QUES	000018B3	R	02
NAMSM_WILD_TYPE=	00000010	NMR2	0000100A	R	02	QUIT	00001302	R	02
NAMSM_WILD_UFD =	01000000	NMB3	00001014	R	02	R	0000066C	R	02
NAMSM_WILD_VER =	00000008	NMBR	00000FC6	R	02	RABSB_BID	00000000		
NAMSS_DID	=	00000006	NONE	000000692	R	02	RABSB_BLN	00000001	
NAMSS_DIR_LVL5	=	00000003	NPLUPE	0000003D7	R	02	RABSB_KRF	00000035	
NAMSS_DVI	=	00000010	NULL	00000050B	R	02	RABSB_KSZ	00000034	
NAMSS_FID	=	00000006	NULL1	000000518	R	02	RABSB_MBC	00000037	
NAMST_DVI	00000014	NULL2	00000051B	R	02	RABSB_MBF	00000036		
NAMSV_CNCL_DEV	=	0000000C	OFST	000000A59	R	02	RABSB_PSZ	00000034	
NAMSV_DIR_LVL5	=	00000015	ONE	000000961	R	02	RABSB_RAC	0000001E	
NAMSV_EXP_DEV	=	00000007	ORGN	0000009B9	R	02	RABSB_ROP1	00000005	
NAMSV_EXP_DIR	=	00000006	OVER	000000758	R	02	RABSB_ROP2	00000006	
NAMSV_EXP_NAME	=	00000002	PABRT	0000104A	R	02	RABSB_ROP3	00000007	
NAMSV_EXP_TYPE	=	00000001	PAD	000000F17	R	02	RABSB_TMO	0000001F	
NAMSV_EXP_VER	=	00000000	PAREN	000013FC	R	02	RABSC_BID	=	00000001
NAMSV_GRP_MAR	=	00000013	PBUF	000019FF	R	02	RABSC_BLN	=	00000044
NAMSV_HIGHVER	=	0000000F	PBUF1	00001A19	R	02	RABSC_KEY	=	00000001
NAMSV_IFI	=	00000010	PCODE	00000D2F	R	02	RABSC_RFA	=	00000002
NAMSV_LOWVER	=	0000000E	PDO	000003F8	R	02	RABSC_SEQ	=	00000000
NAMSV_NODE	=	00000011	PDO	00000DCF	R	02	RABSC_STM	=	00000003
NAMSV_PPF	=	00000010	PFA	000000BFD	R	02	RABSK_BLN	00000044	
NAMSV_PWD	=	00000000	PFIND3	00000484	R	02	RABSL_BKT	00000038	
NAMSV_QUOTED	=	00000012	PFIND8	00000492	R	02	RABSL_CTX	00000018	
NAMSV_ROD	=	00000001	PFIND9	00000498	R	02	RABSL_DCT	00000038	
NAMSV_ROOT_DIR	=	0000000D	PLINE	000019B3	R	02	RABSL_FAB	0000003C	
NAMSV_SOD	=	00000002	PLOOP	00001715	R	02	RABSL_KBF	00000030	
NAMSV_SRCHNMF	=	0000001E	PLUPE	000003A8	R	02	RABSL_PBF	00000030	
NAMSV_SVCTX	=	0000001F	PLUPE2	000003C9	R	02	RABSL_RBF	00000028	
NAMSV_WILDCARD	=	00000008	PLUS	000006E7	R	02	RABSL_RFA0	00000010	
NAMSV_WILD_DIR	=	00000014	PLUS1	00000ACF	R	02	RABSL_RHB	0000002C	
NAMSV_WILD_GRP	=	00000019	PLUS2	00000ADC	R	02	RABSL_ROP	00000004	
NAMSV_WILD_WBR	=	00000019	PLUS3	000007A3	R	02	RABSL_STS	00000008	
NAMSV_WILD_NAME=	00000005	PM	00001466	R	02	RABSL_STV	0000000C		
NAMSV_WILD_SFD1=	00000019	PM1	00001470	R	02	RABSL_URF	00000024		
NAMSV_WILD_SFD2=	00000014	PNM1	00000FR3	R	02	RABSM_ASY	=	00000001	

FIG-FORTH

VAX
 SYMBOL TABLE

RABSM_BIO	=	00000800	RABSV_TMO	=	00000019	RMS_CRC	=	000182F2
RABSM_CCO	=	00000000	RABSV_TPT	=	00000001	RMS_CRE	=	0001C00A
RABSM_CVT	=	04000000	RABSV_UIF	=	00000004	RMS_CREATED	=	00010619
RABSM_FOF	=	00000100	RABSV_ULK	=	00000012	RMS_CRE_STM	=	00018069
RABSM_FDL	=	00000040	RABSV_WAT	=	00000001	RMS_CRMP	=	0001C14C
RABSM_HSH	=	00000080	RABSV_WBH	=	00000000	RMS_CUR	=	000184R4
RABSM_KGE	=	00200000	RABSM_ISI	=	00000002	RMS_DAC	=	0001C012
RABSM_KGT	=	00400000	RABSM_RFA	=	00000010	RMS_DAN	=	000184BC
RABSM_LIM	=	00004000	RABSM_RFA4	=	00000014	RMS_DEADLOCK	=	000187D4
RABSM_LUA	=	00002000	RABSM_RSZ	=	00000022	RMS_DFL	=	00018262
RABSM_LUC	=	00010000	RABSM_STV0	=	0000000C	RMS_DEV	=	000184C4
RABSM_MAS	=	00000020	RABSM_STV2	=	0000000E	RMS_DFL	=	0001876C
RABSM_NLR	=	00100000	RABSM_USZ	=	00000020	RMS_DIR	=	000184CC
RABSM_NXR	=	00800000	RAB_WPALOCK	=	00000230	RMS_DME	=	000184D4
RABSM_PMT	=	40000000	RAB_WPALOCK	=	00001EC	RMS_DNA	=	000184DC
RABSM_PPF_IND	=	00004000	RB	=	000000DC	RMS_DNF	=	0001C04S
RABSM_PPF_RAT	=	00003FC0	REPEA	=	00001764	RMS_DNR	=	00018272
RABSM_PTA	=	20000000	RG	=	00000658	RMS_DPE	=	0001C03A
RABSM_RAH	=	00000200	RMSV_STVSTATUS	=	0000000E	RMS_DTP	=	000184E4
RABSM_REA	=	00000004	RMS_ABO	=	000183EC	RMS_DUP	=	000184FC
RABSM_RUK	=	00080000	RMS_ACC	=	0001C002	RMS_DVI	=	000184FC
RABSM_RNF	=	01000000	RMS_ACS	=	000187B4	RMS_ENQ	=	0001C134
RABSM_RNF	=	08000000	RMS_ACT	=	0001825A	RMS_ENT	=	0001C01A
RABSM_RRL	=	00000008	RMS_AID	=	000183F4	RMS_ENV	=	0001872A
RABSM_TMO	=	02000000	RMS_ALN	=	000183FC	RMS_EOF	=	0001827A
RABSM_TPT	=	00000002	RMS_ALO	=	00018404	RMS_ESA	=	000184FC
RABSM_UIF	=	00000010	RMS_ANT	=	0001840C	RMS_FSL	=	00018714
RABSM_ULK	=	00040000	RMS_AOP	=	00018414	RMS_ESS	=	00018504
RABSM_WAT	=	00020000	RMS_ATF	=	0001C0CC	RMS_FXENQLM	=	000187DC
RABSM_WBH	=	00000640	RMS_ATW	=	0001C0D4	RMS_EXP	=	000182C2
RABSM_PPF_RAT	=	00000008	RMS_AFS	=	000181C0	RMS_EXT	=	0001C022
RABSV_ASY	=	00000000	RMS_BKS	=	0001841C	RMS_FAB	=	0001850C
RABSV_RIO	=	0000000B	RMS_BKZ	=	00018424	RMS_FAC	=	00018514
RABSV_CCO	=	0000001F	RMS_PLN	=	0001842C	RMS_FEX	=	00018282
RABSV_CVT	=	0000001A	RMS_BOF	=	00018198	RMS_FLG	=	0001851C
RABSV_EOF	=	00000016	RMS_RUG	=	00018434	RMS_FLN	=	0001828A
RABSV_HSH	=	00000006	RMS_RUG_DAP	=	00018444	RMS_FNA	=	0001852A
RABSV_KGE	=	00000015	RMS_RUG_DD1	=	0001844C	RMS_FND	=	0001C02A
RABSV_KGT	=	00000016	RMS_RUG_XX2	=	0001844C	RMS_FNF	=	00018292
RABSV_LJIM	=	0000000E	RMS_RUG_XX3	=	00018454	RMS_FNM	=	0001852C
RABSV_LUA	=	00000010	RMS_RUG_XX4	=	0001845C	RMS_FOP	=	0001853C
RABSV_MAS	=	00000014	RMS_RUG_XX5	=	00018464	RMS_FSZ	=	00018534
RABSV_NLR	=	00000017	RMS_RUG_XX6	=	00018464	RMS_FTM	=	000187C4
RABSV_PMT	=	0000001F	RMS_RUG_XX7	=	00018474	RMS_FUL	=	00018544
RABSV_PPF_IND	=	0000000E	RMS_RUG_XX8	=	0001847C	RMS_GBC	=	000187CC
RABSV_PPF_RAT	=	00000006	RMS_RUG_XX9	=	00018484	RMS_IAL	=	0001854C
RABSV_PTA	=	0000001D	RMS_CAA	=	0001848C	RMS_IAN	=	00018554
RABSV_RAH	=	00000009	RMS_CCF	=	0001C0DC	RMS_IBF	=	00018754
RABSV_PFA	=	00000002	RMS_CCR	=	00018494	RMS_IBK	=	0001877C
RABSV_RLK	=	00000013	RMS_CDA	=	0001C0E4	RMS_IDR	=	000182F2
RABSV_RNF	=	00000014	RMS_CHG	=	0001849C	RMS_IDX	=	0001855C
RABSV_RNF	=	00000014	RMS_CHK	=	000184A4	RMS_IFA	=	0001C124
RABSV_RPI	=	00000003	RMS_CHN	=	0001C0FC	RMS_IFI	=	00018564
			RMS_CON	=	000184AC	RMS_IFL	=	00018764
			RMS_CONTRLC	=	00010651	RMS_IMX	=	0001856C
			RMS_CONTRLD	=	00010609	RMS_TOP	=	00018574
			RMS_CONTRLY	=	00010611	RMS_IRC	=	0001857C

RMSS_ISI	=	00018584	RMSS_RLF	=	00018674	SEED	00000086	R	02	
RMSS_KBF	=	0001858C	RMSS_RLK	=	000182AA	SEMIC	00001385	R	02	
RMSS_KEY	=	00018594	RMSS_RMV	=	0001C0FC	SEMIS	00000616	R	02	
RMSS_KFF	=	00018031	RMSS_RNF	=	000182B2	SIGN	0000180C	R	02	
RMSS_KNM	=	00018774	RMSS_RNL	=	000181A0	SIGN1	0000181C	R	02	
RMSS_KRF	=	0001859C	RMSS_ROP	=	0001867C	SLASH	00001627	R	02	
RMSS_KSI	=	00018784	RMSS_RPL	=	0001C104	SLMOD	000015FB	R	02	
RMSS_KSZ	=	000185A4	RMSS_RRV	=	00018684	SLMOD1	0000160D	R	02	
RMSS_LAN	=	000185AC	RMSS_RSA	=	000182DA	SMDG	00000CF1	R	02	
RMSS_LBL	=	000185B4	RMSS_RSL	=	0001873C	SNEG	00001992	R	02	
RMSS_LEX	=	0001878C	RMSS_RSS	=	00018694	SO	000009D4	R	02	
RMSS_LNF	=	0001858C	RMSS_RST	=	0001869C	SP1	000005E8	R	02	
RMSS_LOC	=	000185C4	RMSS_RSZ	=	000186A4	SPACS	000017C7	R	02	
RMSS_MBC	=	00018734	RMSS_RTB	=	000181A8	SPAX1	000017DD	R	02	
RMSS_MKD	=	0001C032	RMSS_RVU	=	0001868C	SPAX2	000017D7	R	02	
RMSS_MRN	=	000185CC	RMSS_SEG	=	00018794	SPC	00000B6E	R	02	
RMSS_MRS	=	000185D4	RMSS_SEQ	=	000186AC	SRTPARM	000002F9	R	02	
RMSS_NAM	=	000185DC	RMSS_SHR	=	000186B4	SSS_NORMAL	*****	X	02	
RMSS_NFF	=	000185E4	RMSS_SIZ	=	000186BC	SSKP	0000199F	R	02	
RMSS_NET	=	0001874C	RMSS_SNE	=	0001879C	SSLA	0000165B	R	02	
RMSS_NETFATL	=	0001C13C	RMSS_SPE	=	000187A4	SSMOD	0000164A	R	02	
RMSS_NID	=	000185EC	RMSS_SPL	=	0001C042	STAR	000015EC	R	02	
RMSS_NMF	=	000182CA	RMSS_SQO	=	000186C4	START	00000002	R	02	
RMSS_NOD	=	000185F4	RMSS_STALL	=	00018001	STOD	00001989	R	02	
RMSS_NORMAL	=	00010001	RMSS_STK	=	000186CC	STT	00000A81	R	02	
RMSS_NPK	=	000185FC	RMSS_STR	=	000187BC	SWAP	00000775	R	02	
RMSS_OK_ALK	=	00018039	RMSS_SUC	=	00010001	SYSSASSIGN	*****	GX	02	
RMSS_OK_DEL	=	00018041	RMSS_SUP	=	000182D2	SYSSCLOSE	*****	GX	02	
RMSS_OK_DUP	=	00018011	RMSS_SUPERSFDE	=	00010631	SYSSCONNECT	*****	GX	02	
RMSS_OK_IDX	=	00018019	RMSS_SUPPORT	=	0001C144	SYSSCREATE	*****	GX	02	
RMSS_OK_LIM	=	00018051	RMSS_SYN	=	000186D4	SYSSGET	*****	GX	02	
RMSS_OK_NOP	=	00018059	RMSS_SYS	=	0001C10C	SYSSOPEN	*****	GX	02	
RMSS_OK_RLK	=	00018021	RMSS_TEMP1	=	0001826A	SYSSPUT	*****	GX	02	
RMSS_OK_RNF	=	00018049	RMSS_TMO	=	000181B0	SYSSQIO	*****	GX	02	
RMSS_OK_RRI	=	00018029	RMSS_TMS	=	000181B8	SYSTRNLOG	*****	GX	02	
RMSS_OK_WAT	=	00018061	RMSS_TRF	=	000186DC	SYSSWAITFR	*****	GX	02	
RMSS_ORD	=	00018604	RMSS_TYP	=	000186E4	TASK	00001DE1	R	02	
RMSS_ORG	=	0001860C	RMSS_UBF	=	000186EC	TEMP1	000000R3	R	02	
RMSS_PBF	=	00018614	RMSS_UPI	=	000187AC	TGLE	000007BF	R	02	
RMSS_PENDING	=	00018009	RMSS_USZ	=	000186F4	THEN	000016F1	R	02	
RMSS_PES	=	000181C8	RMSS_VER	=	000186FC	THREE	0000140A	R	02	
RMSS_PLG	=	0001861C	RMSS_VOL	=	00018704	TIB	000009E7	R	02	
RMSS_PIV	=	0001872C	RMSS_WPF	=	0001C12C	TICK	00001412	R	02	
RMSS_POS	=	00018624	RMSS_WCC	=	000182FA	TR1	00000B98	R	02	
RMSS_PRM	=	0001862C	RMSS_WFR	=	0001C114	TRIA1	00001D90	R	02	
RMSS_PRV	=	00018294	RMSS_WLD	=	00018744	TRIA2	00001D9E	R	02	
RMSS_QUO	=	00018634	RMSS_WLK	=	000182BA	TRIAD	00001D74	R	02	
RMSS_RAB	=	0001863C	RMSS_WPL	=	0001C11C	TRL1	00000DA4	R	02	
RMSS_RAC	=	00018644	RMSS_WSP	=	0001871C	TRLG	00000D9C	R	02	
RMSS_RAT	=	0001864C	RMSS_XAR	=	0001870C	TRVS	00000B94	R	02	
RMSS_RPF	=	00018654	RNIJ	00000AB3	R	02	TTCHAN	0000009B	R	02
RMSS_RRF	=	0001875C	RO	000009DD	R	02	TTIOLEN	0000009F	R	02
RMSS_REB	=	0001C0F4	ROT	00000B5A	R	02	TTIOSR	0000009D	R	02
RMSS_REX	=	000182A2	RP1	00000600	R	02	TTNAME	0000008A	R	02
RMSS_REA	=	0001865C	PSLW	0000180F	R	02	TWO	00000969	R	02
RMSS_RFM	=	00018664	PSLW1	00001853	R	02	TYP1	00000D7E	R	02
RMSS_RHH	=	0001866C	PSLW2	00001855	R	02	TYPE	00000D6E	R	02

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000018C0 R
0000172H R
00001A2C R
000019E9 R
00000946 R
0000056F R
000011A7 R
0000054F R
0000092A R
00001191 R
000012C7 R
000012A7 R
00000A25 R
000018F2 R
000018F8 R
000018D0 R
000002B5 R
00000F3F R
00000F42 R
00001786 R
000009F3 R
00000F2A R
0000196F R
000002CA R
00000A01 R
00000E82 R
00000FAE R
00000EH2 R
00000EB6 R
00000360 R
0000034C R
00000681 R
00000959 R
000006C7 R
000006D8 R

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-----+
! PSFCT SYNOPSIS !
-----+

PSECT NAME	ALLOCATION	PSECT NO.	ATTRIBUTES	ABS	REL	ABS	REL	LCL	NOSHR	NOEXE	WORD	NOMRT	NOVEC	BYTE	
ABS	00000000 (0.)	00 (0.)	NOPICT	USR	USR	CON	CON	ABS	LCL	NOSHR	NOEXE	WORD	NOMRT	NOVEC	BYTE
BLANK	00000000 (0.)	01 (1.)	NOPICT	USR	USR	CON	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE
VIRTUAL_MACHINE	0000F000 (61440.)	02 (2.)	NOPICT	USR	USR	CON	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	LONG
SARSS	00000060 (96.)	03 (3.)	NOPICT	USR	USR	CON	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE

-----+
! PERFORMANCE INDICATORS !
-----+

PHASE	PAGE FAULTS	CPU TIME	ELAPSED TIME
INITIALIZATION	18	00:00:00.05	00:00:00.22
COMMAND PROCESSING	24	00:00:00.18	00:00:00.83
PASS 1	R36	00:00:23.87	00:00:49.11
SYMBOL TABLE SORT	9	00:00:01.93	00:00:03.70

PASS 2	1093	00:00:07.88	00:00:16.99
SYMBOL TABLE OUTPUT	128	00:00:00.80	00:00:01.64
PSECT SYMOPSIS OUTPUT	6	00:00:00.02	00:00:00.02
CROSS-REFERENCE OUTPUT	0	00:00:00.00	00:00:00.00
ASSEMBLER RUN TOTALS	2118	00:00:34.75	00:01:12.52

THE WORKING SET LIMIT WAS 512 PAGES.
118606 BYTES (232 PAGES) OF VIRTUAL MEMORY WERE USED TO BUFFER THE INTERMEDIATE CODE.
THERE WERE 70 PAGES OF SYMBOL TABLE SPACE ALLOCATED TO HOLD 1403 NON-LOCAL AND 1 LOCAL SYMBOLS.
3678 SOURCE LINES WERE READ IN PASS 1, PRODUCING 48 OBJECT RECORDS IN PASS 2.
38 PAGES OF VIRTUAL MEMORY WERE USED TO DEFINE 32 MACROS.

-----+
! MACRO LIBRARY STATISTICS !
-----+

MACRO LIBRARY NAME MACROS DEFINED

SYSSYSROOT:ISYSLIBSTARLET.MLR;1 29

1472 GFTS WERE REQUIRED TO DEFINE 29 MACROS.

THERE WERE NO ERRORS, WARNINGS OR INFORMATION MESSAGES.

/LIST VAXFORTH

