

!A

*** End of Pass 1

*** End of Pass 2

```
0800      1          ttl "AppleSoft List Source Code, ASLIST.L"
0800      2      ;
0800      3      ;
0800      4      ; ASLIST.L
0800      5      ;
0800      6      ;
0800      7      ; AppleSoft List Source Code
0800      8      ;
0800      9      ; 2024 February 14
0800     10      ;
0800     11      ;
0800     12      ; DOS 4.5, Build 06
0800     13      ;
0800     14      ; 2024 February 14
0800     15      ;
0800     16      ;
0800     17      ; Start of Source Code: 0x4000
0800     18      ; Start of Symbol List: 0x7800
0800     19      ;
0800     20      ;
0800     21      ; Copyright (c) 2024 February 14 by
0800     22      ; Walland Philip Vrbancic Jr
0800     23      ;
0800     24      ; 6223 East Peabody Street
0800     25      ; Long Beach, California 90808
0800     26      ; Unitied States of America
0800     27      ;
0800     28      ; All Rights Reserved
0800     29      ;
0800     30      ; This software is the confidential and
0800     31      ; proprietary intellectual property of
0800     32      ; Walland Philip Vrbancic Jr
0800     33      ;
0800     34      ;
0800     35      ; ASLIST is 0x06D9 bytes in size. At the end of ASLIST is
0800     36      ; BUFFER which holds the Applesoft line being processed.
0800     37      ; It is safe to assume that BUFFER will never be more than
0800     38      ; 256 bytes in size. Therefore, ASLIST will never be more
0800     39      ; than 0x07D9 bytes in size while processing an Applesoft
0800     40      ; program. If DOS 4.5L is configured with two file
0800     41      ; buffers, ASLIST should be loaded at 0x8E00.
0800     42      ;
0800     43      ; For DOS 4.5H, ASLIST should be loaded at 0xB600.
0800     44      ;
0800     45      ;
0022     46  WNDTOP      epz $22
0025     47  CV          epz $25
0800     48      ;
0032     49  INVFLG      epz $32
0800     50      ;
0067     51  TEXTTAB      epz $67
0800     52      ;
00CE     53  TXTPTR      epz $CE
0800     54      ;
00E3     55  LASTCHAR      epz $E3
00EB     56  FLAGS        epz $EB
00EC     57  PTR1          epz $EC
00EE     58  PTR2          epz $EE
0800     59      ;
00F9     60  VAL2          epz $F9
```

```

00FA      61  NUMIN      epz  $FA
00FC      62  BUFR       epz  $FC
00FE      63  LINENUM    epz  $FE
0800      64  ;
0800      65              enz
0800      66  ;
0000      67  ZERO       equ  $00
008C      68  CTRLC      equ  $8C
008D      69  RETURN     equ  $8D
00A0      70  SPACE      equ  $A0
00A1      71  MAXLINE    equ  $A1
00FF      72  NEGONE     equ  $FF
0800      73  ;
000F      74  NUMMASK    equ  $0F
007F      75  ASCIMASK   equ  $7F
0080      76  ASCIFLAG   equ  $80
00A0      77  ECHOOFF    equ  $A0
0800      78  ;
0110      79  STARTADR   equ  $110
0112      80  BUFRADR    equ  $112
0114      81  LINELEN    equ  $114
0115      82  JMPVEC1    equ  $115
0118      83  JMPVEC2    equ  $118
0800      84  ;
03D0      85  DOSWARM    equ  $3D0
0800      86  ;
F94C      87  PRBL3      equ  $F94C
FC58      88  HOME       equ  $FC58
FD0C      89  RDKEY      equ  $FD0C
FD8E      90  CROUT      equ  $FD8E
FDED      91  COUT       equ  $FDED
FE95      92  OUTPORT    equ  $FE95
FF58      93  IORTS      equ  $FF58
0800      94  ;
0800      95  ;
B600      96              org  $B600
B600      97              obj  $1000
B600      98              usr
B600      99  ;
B600     100  ;
B600 20 58 FF 101  START      jsr  IORTS
B603     102  ;
B603 BA    103              tsx
B604 CA    104              dex
B605 CA    105              dex
B606 9A    106              txs
B607     107  ;
B607 18    108              clc
B608     109  ;
B608 68    110              pla
B609 69 A3  111              adc  #OFFSETBL-START+2
B60B 85 EC  112              sta  PTR1
B60D     113  ;
B60D 68    114              pla
B60E 69 03  115              adc  /OFFSETBL-START+2
B610 85 ED  116              sta  PTR1+1
B612     117  ;
B612 38    118              sec
B613     119  ;
B613 A5 EC  120              lda  PTR1
B615 E9 A5  121              sbc  #OFFSETBL-START

```

```

B617 8D 10 01    122      sta STARTADR
B61A             123      ;
B61A A5 ED      124      lda PTR1+1
B61C E9 03      125      sbc /OFFSETBL-START
B61E 8D 11 01    126      sta STARTADR+1
B621             127      ;
B621 A9 00      128      lda #*- *
B623             129      dfs !-1
B622 4C 00 00    130      jmp *- *
B625             131      dfs !-2
B623             132      ;
B623 8D 15 01    133      sta JMPVEC1
B626 8D 18 01    134      sta JMPVEC2
B629             135      ;
B629 18          136      clc
B62A             137      ;
B62A A5 EC      138      lda PTR1
B62C 69 E8      139      adc #CODE1-OFFSETBL
B62E 8D 16 01    140      sta JMPVEC1+1
B631             141      ;
B631 A5 ED      142      lda PTR1+1
B633 69 02      143      adc /CODE1-OFFSETBL
B635 8D 17 01    144      sta JMPVEC1+2
B638             145      ;
B638 18          146      clc
B639             147      ;
B639 A5 EC      148      lda PTR1
B63B 69 0B      149      adc #CODE2-OFFSETBL
B63D 8D 19 01    150      sta JMPVEC2+1
B640             151      ;
B640 A5 ED      152      lda PTR1+1
B642 69 03      153      adc /CODE2-OFFSETBL
B644 8D 1A 01    154      sta JMPVEC2+2
B647             155      ;
B647 18          156      clc
B648             157      ;
B648 A5 EC      158      lda PTR1
B64A 69 34      159      adc #BUFFER-OFFSETBL
B64C 8D 12 01    160      sta BUFRADR
B64F             161      ;
B64F A5 ED      162      lda PTR1+1
B651 69 03      163      adc /BUFFER-OFFSETBL
B653 8D 13 01    164      sta BUFRADR+1
B656             165      ;
B656 A5 67      166      lda TEXTTAB
B658 85 CE      167      sta TXTPTR
B65A             168      ;
B65A A5 68      169      lda TEXTTAB+1
B65C 85 CF      170      sta TXTPTR+1
B65E             171      ;
B65E 20 58 FC    172      LBL01 jsr HOME
B661             173      ;
B661 A9 00      174      lda #ZERO
B663 85 EB      175      sta FLAGS
B665 85 F9      176      sta VAL2
B667 8D 14 01    177      sta LINELEN
B66A             178      ;
B66A A0 D6      179      ld y #MSG1OFF-OFFSETBL
B66C             180      ;
B66C 18          181      clc
B66D             182      ;

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```

B66D B1 EC      183      lda (PTR1),Y
B66F 6D 10 01   184      adc STARTADR
B672 85 EE      185      sta PTR2
B674          186      ;
B674 C8         187      iny
B675          188      ;
B675 B1 EC      189      lda (PTR1),Y
B677 6D 11 01   190      adc STARTADR+1
B67A 85 EF      191      sta PTR2+1
B67C          192      ;
B67C A0 FF      193      ldy #NEGONE
B67E          194      ;
B67E C8         195 LBL02  iny
B67F          196      ;
B67F B1 EE      197      lda (PTR2),Y
B681 48         198      pha
B682 09 80      199      ora #ASCIFLAG
B684          200      ;
B684 20 ED FD   201      jsr COUT
B687          202      ;
B687 68         203      pla
B688 30 F4      204      bmi LBL02
B68A          205      ;
B68A A2 00      206      ldx #ZERO
B68C          207      ;
B68C 20 0C FD   208 LBL03  jsr RDKEY
B68F          209      ;
B68F C9 8D      210      cmp #RETURN
B691 F0 19      211      beq LBL05
B693          212      ;
B693 C9 B0      213      cmp #"0"
B695 90 F5      214      bcc LBL03
B697          215      ;
B697 C9 BA      216      cmp #"9"+1
B699 B0 F1      217      bcs LBL03
B69B          218      ;
B69B 20 ED FD   219      jsr COUT
B69E          220      ;
B69E 29 0F      221      and #NUMMASK
B6A0 95 FA      222      sta NUMIN,X
B6A2          223      ;
B6A2 E8         224      inx
B6A3          225      ;
B6A3 E0 03      226      cpx #3
B6A5 D0 E5      227      bne LBL03
B6A7          228      ;
B6A7 F0 18      229      beq LBL06
B6A9          230      ;
B6A9 18         231 LBL04  clc
B6AA 90 B2      232      bcc LBL01
B6AC          233      ;
B6AC A9 A0      234 LBL05  lda #SPACE
B6AE          235      ;
B6AE 20 ED FD   236      jsr COUT
B6B1          237      ;
B6B1 E0 02      238      cpx #2
B6B3 D0 A9      239      bne LBL01
B6B5          240      ;
B6B5 A5 FB      241      lda NUMIN+1
B6B7 85 FC      242      sta NUMIN+2
B6B9          243      ;

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B6B9 A5 FA      244      lda NUMIN
B6BB 85 FB      245      sta NUMIN+1
B6BD          246      ;
B6BD A9 00      247      lda #ZERO
B6BF 85 FA      248      sta NUMIN
B6C1          249      ;
B6C1 18          250 LBL06   clc
B6C2          251      ;
B6C2 A5 FA      252      lda NUMIN
B6C4 F0 0E      253      beq LBL08
B6C6          254      ;
B6C6 AD 14 01   255 LBL07   lda LINELEN
B6C9 69 64      256      adc #100
B6CB 8D 14 01   257      sta LINELEN
B6CE B0 D9      258      bcs LBL04
B6D0          259      ;
B6D0 C6 FA      260      dec NUMIN
B6D2 D0 F2      261      bne LBL07
B6D4          262      ;
B6D4 A5 FB      263 LBL08   lda NUMIN+1
B6D6 F0 0E      264      beq LBL10
B6D8          265      ;
B6D8 AD 14 01   266 LBL09   lda LINELEN
B6DB 69 0A      267      adc #10
B6DD 8D 14 01   268      sta LINELEN
B6E0 B0 C7      269      bcs LBL04
B6E2          270      ;
B6E2 C6 FB      271      dec NUMIN+1
B6E4 D0 F2      272      bne LBL09
B6E6          273      ;
B6E6 AD 14 01   274 LBL10   lda LINELEN
B6E9 65 FC      275      adc NUMIN+2
B6EB 8D 14 01   276      sta LINELEN
B6EE B0 B9      277      bcs LBL04
B6F0          278      ;
B6F0 AD 14 01   279      lda LINELEN
B6F3 C9 14      280      cmp #20
B6F5 90 B2      281      bcc LBL04
B6F7          282      ;
B6F7 C9 A1      283      cmp #MAXLINE
B6F9 B0 AE      284      bcs LBL04
B6FB          285      ;
B6FB EE 14 01   286      inc LINELEN
B6FE          287      ;
B6FE 20 8E FD   288      jsr CROUT
B701 20 8E FD   289      jsr CROUT
B704          290      ;
B704 A0 D8      291      ldy #MSG2OFF-OFFSETBL
B706          292      ;
B706 18          293      clc
B707          294      ;
B707 B1 EC      295      lda (PTR1),Y
B709 6D 10 01   296      adc STARTADR
B70C 85 EE      297      sta PTR2
B70E          298      ;
B70E C8          299      iny
B70F          300      ;
B70F B1 EC      301      lda (PTR1),Y
B711 6D 11 01   302      adc STARTADR+1
B714 85 EF      303      sta PTR2+1
B716          304      ;

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```
B716 A0 FF      305      ldy #NEGONE
B718           306      ;
B718 C8         307      LBL11    iny
B719           308      ;
B719 B1 EE      309      lda (PTR2),Y
B71B 48         310      pha
B71C 09 80      311      ora #ASCIFLAG
B71E           312      ;
B71E 20 ED FD   313      jsr COUT
B721           314      ;
B721 68         315      pla
B722 30 F4      316      bmi LBL11
B724           317      ;
B724 20 0C FD   318      jsr RDKEY
B727           319      ;
B727 C9 D9      320      cmp #"Y"
B729 D0 04      321      bne LBL12
B72B           322      ;
B72B E6 EB      323      inc FLAGS
B72D D0 02      324      bne LBL13
B72F           325      ;
B72F A9 CE      326      LBL12    lda #"N"
B731           327      ;
B731 20 ED FD   328      LBL13    jsr COUT
B734           329      ;
B734 20 8E FD   330      jsr CROUT
B737 20 8E FD   331      jsr CROUT
B73A           332      ;
B73A A0 DA      333      ldy #MESG3OFF-OFFSETBL
B73C           334      ;
B73C 18         335      clc
B73D           336      ;
B73D B1 EC      337      lda (PTR1),Y
B73F 6D 10 01   338      adc STARTADR
B742 85 EE      339      sta PTR2
B744           340      ;
B744 C8         341      iny
B745           342      ;
B745 B1 EC      343      lda (PTR1),Y
B747 6D 11 01   344      adc STARTADR+1
B74A 85 EF      345      sta PTR2+1
B74C           346      ;
B74C A0 FF      347      ldy #NEGONE
B74E           348      ;
B74E C8         349      LBL14    iny
B74F           350      ;
B74F B1 EE      351      lda (PTR2),Y
B751 48         352      pha
B752 09 80      353      ora #ASCIFLAG
B754           354      ;
B754 20 ED FD   355      jsr COUT
B757           356      ;
B757 68         357      pla
B758 30 F4      358      bmi LBL14
B75A           359      ;
B75A 20 0C FD   360      jsr RDKEY
B75D           361      ;
B75D C9 D9      362      cmp #"Y"
B75F D0 0A      363      bne LBL15
B761           364      ;
B761 A5 EB      365      lda FLAGS
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B763 09 02      366      ora #2
B765 85 EB      367      sta FLAGS
B767            368      ;
B767 A9 D9      369      lda #"Y"
B769 D0 02      370      bne LBL16
B76B            371      ;
B76B A9 CE      372 LBL15  lda #"N"
B76D            373      ;
B76D 20 ED FD   374 LBL16  jsr COUT
B770            375      ;
B770 20 8E FD   376      jsr CROUT
B773 20 8E FD   377      jsr CROUT
B776            378      ;
B776 A0 DC      379      ldy #MESG4OFF-OFFSETBL
B778            380      ;
B778 18          381      clc
B779            382      ;
B779 B1 EC      383      lda (PTR1),Y
B77B 6D 10 01   384      adc STARTADR
B77E 85 EE      385      sta PTR2
B780            386      ;
B780 C8          387      iny
B781            388      ;
B781 B1 EC      389      lda (PTR1),Y
B783 6D 11 01   390      adc STARTADR+1
B786 85 EF      391      sta PTR2+1
B788            392      ;
B788 A0 FF      393      ldy #NEGONE
B78A            394      ;
B78A C8          395 LBL17  iny
B78B            396      ;
B78B B1 EE      397      lda (PTR2),Y
B78D 48          398      pha
B78E 09 80      399      ora #ASCIFLAG
B790            400      ;
B790 20 ED FD   401      jsr COUT
B793            402      ;
B793 68          403      pla
B794 30 F4      404      bmi LBL17
B796            405      ;
B796 20 0C FD   406      jsr RDKEY
B799            407      ;
B799 C9 D9      408      cmp #"Y"
B79B F0 02      409      beq LBL18
B79D            410      ;
B79D A9 CE      411      lda #"N"
B79F            412      ;
B79F 48          413 LBL18  pha
B7A0            414      ;
B7A0 20 ED FD   415      jsr COUT
B7A3            416      ;
B7A3 68          417      pla
B7A4 C9 D9      418      cmp #"Y"
B7A6 F0 09      419      beq LBL19
B7A8            420      ;
B7A8 A9 A0      421      lda #ECHOOFF
B7AA 85 32      422      sta INVFLG
B7AC            423      ;
B7AC A6 25      424      ldx CV
B7AE            425      ;
B7AE E8          426      inx

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B7AF 86 22      427      stx WNDTOP
B7B1           428      ;
B7B1 20 8E FD   429  LBL19  jsr CROUT
B7B4 20 8E FD   430      jsr CROUT
B7B7           431      ;
B7B7 A9 01      432      lda #1
B7B9           433      ;
B7B9 20 95 FE   434      jsr OUTPORT
B7BC           435      ;
B7BC 18         436      clc
B7BD 90 13      437      bcc LBL21
B7BF           438      ;
B7BF A9 8C      439  LBL20  lda #CTRLC
B7C1           440      ;
B7C1 20 ED FD   441      jsr COUT
B7C4           442      ;
B7C4 A9 00      443      lda #ZERO
B7C6 85 22      444      sta WNDTOP
B7C8           445      ;
B7C8 20 95 FE   446      jsr OUTPORT
B7CB           447      ;
B7CB A9 FF      448      lda #NEGONE
B7CD 85 32      449      sta INVFLG
B7CF           450      ;
B7CF 4C D0 03   451      jmp DOSWARM
B7D2           452      ;
B7D2 A0 01      453  LBL21  ldy #1
B7D4           454      ;
B7D4 B1 CE      455      lda (TXTPTR),Y
B7D6 F0 E7      456      beq LBL20
B7D8           457      ;
B7D8 C8         458      iny
B7D9           459      ;
B7D9 B1 CE      460      lda (TXTPTR),Y
B7DB 85 FE      461      sta LINENUM
B7DD           462      ;
B7DD C8         463      iny
B7DE           464      ;
B7DE B1 CE      465      lda (TXTPTR),Y
B7E0 85 FF      466      sta LINENUM+1
B7E2           467      ;
B7E2 18         468      clc
B7E3           469      ;
B7E3 A5 CE      470      lda TXTPTR
B7E5 69 04      471      adc #4
B7E7 85 CE      472      sta TXTPTR
B7E9 90 02      473      bcc LBL22
B7EB           474      ;
B7EB E6 CF      475      inc TXTPTR+1
B7ED           476      ;
B7ED A2 00      477  LBL22  ldx #ZERO
B7EF           478      ;
B7EF A9 10      479      lda #10000
B7F1 85 EE      480      sta PTR2
B7F3           481      ;
B7F3 A9 27      482      lda /10000
B7F5           483      ;
B7F5 20 18 01   484      jsr JMPVEC2
B7F8           485      ;
B7F8 A9 E8      486      lda #1000
B7FA 85 EE      487      sta PTR2

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B7FC          488 ;
B7FC A9 03     489      lda /1000
B7FE          490 ;
B7FE 20 18 01  491      jsr JMPVEC2
B801          492 ;
B801 A9 64     493      lda #100
B803 85 EE     494      sta PTR2
B805          495 ;
B805 A9 00     496      lda /100
B807          497 ;
B807 20 18 01  498      jsr JMPVEC2
B80A          499 ;
B80A A9 0A     500      lda #10
B80C 85 EE     501      sta PTR2
B80E          502 ;
B80E A9 00     503      lda /10
B810          504 ;
B810 20 18 01  505      jsr JMPVEC2
B813          506 ;
B813 A5 FE     507      lda LINENUM
B815 09 B0     508      ora #"0"
B817          509 ;
B817 20 ED FD  510      jsr COUT
B81A          511 ;
B81A AD 12 01  512 LBL23   lda BUFRADR
B81D 85 FC     513      sta BUFR
B81F          514 ;
B81F AD 13 01  515      lda BUFRADR+1
B822 85 FD     516      sta BUFR+1
B824          517 ;
B824 A9 00     518      lda #ZERO
B826 85 E3     519      sta LASTCHAR
B828 85 FA     520      sta NUMIN
B82A 85 FB     521      sta NUMIN+1
B82C 85 FE     522      sta LINENUM
B82E 85 FF     523      sta LINENUM+1
B830          524 ;
B830 A8        525      tay
B831          526 ;
B831 A2 01     527      ldx #1
B833          528 ;
B833 B1 CE     529 LBL24   lda (TXTPTR),Y
B835          530 ;
B835 E6 CE     531      inc TXTPTR
B837 D0 02     532      bne LBL25
B839          533 ;
B839 E6 CF     534      inc TXTPTR+1
B83B          535 ;
B83B C9 00     536 LBL25   cmp #ZERO
B83D D0 08     537      bne LBL27
B83F          538 ;
B83F E6 FB     539      inc NUMIN+1
B841 D0 5B     540      bne LBL35
B843          541 ;
B843 D0 8D     542 LBL26   bne LBL21
B845 F0 D3     543      beq LBL23
B847          544 ;
B847 C9 80     545 LBL27   cmp #ASCIFLAG
B849 B0 67     546      bcs LBL39
B84B          547 ;
B84B C9 22     548      cmp #'"'

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```

B84D F0 39      549      beq LBL32
B84F           550      ;
B84F 48         551      pha
B850           552      ;
B850 A5 FA      553      lda NUMIN
B852 F0 06      554      beq LBL28
B854           555      ;
B854 68         556      pla
B855           557      ;
B855 20 15 01   558      jsr JMPVEC1
B858 90 D9      559      bcc LBL24
B85A           560      ;
B85A 68         561 LBL28  pla
B85B           562      ;
B85B C9 3A      563      cmp #' : '
B85D F0 33      564      beq LBL33
B85F           565      ;
B85F C9 3B      566      cmp #' ; '
B861 F0 08      567      beq LBL29
B863           568      ;
B863 C9 2C      569      cmp #' , '
B865 F0 04      570      beq LBL29
B867           571      ;
B867 C9 28      572      cmp #' ( '
B869 D0 0D      573      bne LBL30
B86B           574      ;
B86B 20 15 01   575 LBL29  jsr JMPVEC1
B86E           576      ;
B86E B1 CE      577      lda (TXTPTR),Y
B870 C9 3A      578      cmp #' : '
B872 F0 BF      579      beq LBL24
B874           580      ;
B874 A9 20      581      lda #' '
B876 D0 0B      582      bne LBL31
B878           583      ;
B878 C9 29      584 LBL30  cmp #' ) '
B87A D0 07      585      bne LBL31
B87C           586      ;
B87C 48         587      pha
B87D           588      ;
B87D A9 20      589      lda #' '
B87F 20 15 01   590      jsr JMPVEC1
B882           591      ;
B882 68         592      pla
B883           593      ;
B883 20 15 01   594 LBL31  jsr JMPVEC1
B886 90 AB      595      bcc LBL24
B888           596      ;
B888 A5 FA      597 LBL32  lda NUMIN
B88A 49 01      598      eor #1
B88C 85 FA      599      sta NUMIN
B88E           600      ;
B88E A9 22      601      lda #' " '
B890 D0 F1      602      bne LBL31
B892           603      ;
B892 A5 FA      604 LBL33  lda NUMIN
B894 F0 04      605      beq LBL34
B896           606      ;
B896 A9 3A      607      lda #' : '
B898 D0 E9      608      bne LBL31
B89A           609      ;

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```

B89A A5 EB      610 LBL34      lda FLAGS
B89C 29 01      611          and #1
B89E D0 66      612 LBL35      bne LBL46
B8A0           613          ;
B8A0 A9 A0      614          lda #SPACE
B8A2           615          ;
B8A2 20 15 01   616          jsr JMPVEC1
B8A5           617          ;
B8A5 A9 3A      618          lda #' : '
B8A7           619          ;
B8A7 20 15 01   620          jsr JMPVEC1
B8AA           621          ;
B8AA A9 A0      622 LBL36      lda #SPACE
B8AC D0 D5      623          bne LBL31
B8AE           624          ;
B8AE 10 93      625 LBL37      bpl LBL26
B8B0           626          ;
B8B0 F0 81      627 LBL38      beq LBL24
B8B2           628          ;
B8B2 0A         629 LBL39      asl
B8B3 A8         630          tay
B8B4           631          ;
B8B4 A5 EB      632          lda FLAGS
B8B6 29 02      633          and #2
B8B8 F0 0E      634          beq LBL41
B8BA           635          ;
B8BA C0 02      636          cpy #2
B8BC D0 02      637          bne LBL40
B8BE           638          ;
B8BE E6 F9      639          inc VAL2
B8C0           640          ;
B8C0 C0 04      641 LBL40      cpy #4
B8C2 D0 04      642          bne LBL41
B8C4           643          ;
B8C4 C6 F9      644          dec VAL2
B8C6 C6 F9      645          dec VAL2
B8C8           646          ;
B8C8 C0 64      647 LBL41      cpy #100
B8CA D0 04      648          bne LBL42
B8CC           649          ;
B8CC A9 02      650          lda #2
B8CE 85 FA      651          sta NUMIN
B8D0           652          ;
B8D0 18         653 LBL42      clc
B8D1           654          ;
B8D1 B1 EC      655          lda (PTR1),Y
B8D3 6D 10 01   656          adc STARTADR
B8D6 85 EE      657          sta PTR2
B8D8           658          ;
B8D8 C8         659          iny
B8D9           660          ;
B8D9 B1 EC      661          lda (PTR1),Y
B8DB 6D 11 01   662          adc STARTADR+1
B8DE 85 EF      663          sta PTR2+1
B8E0           664          ;
B8E0 A0 00      665          ldy #ZERO
B8E2           666          ;
B8E2 A9 A0      667          lda #SPACE
B8E4 C5 E3      668          cmp LASTCHAR
B8E6 F0 03      669          beq LBL43
B8E8           670          ;

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B8E8 20 15 01    671          jsr JMPVEC1
B8EB             672          ;
B8EB B1 EE       673 LBL43    lda (PTR2),Y
B8ED F0 BB       674          beq LBL36
B8EF             675          ;
B8EF 48          676          pha
B8F0             677          ;
B8F0 20 15 01    678          jsr JMPVEC1
B8F3             679          ;
B8F3 E6 EE       680          inc PTR2
B8F5 D0 02       681          bne LBL44
B8F7             682          ;
B8F7 E6 EF       683          inc PTR2+1
B8F9             684          ;
B8F9 68          685 LBL44    pla
B8FA             686          ;
B8FA 30 EF       687          bmi LBL43
B8FC             688          ;
B8FC B1 CE       689          lda (TXTPTR),Y
B8FE C9 28       690          cmp #'('
B900 D0 A8       691          bne LBL36
B902             692          ;
B902 F0 AC       693          beq LBL38
B904             694          ;
B904 10 A8       695 LBL45    bpl LBL37
B906             696          ;
B906 AD 12 01    697 LBL46    lda BUFRADR
B909 85 FC       698          sta BUFR
B90B             699          ;
B90B AD 13 01    700          lda BUFRADR+1
B90E 85 FD       701          sta BUFR+1
B910             702          ;
B910 A5 F9       703 LBL47    lda VAL2
B912 10 04       704          bpl LBL48
B914             705          ;
B914 A9 00       706          lda #ZERO
B916 85 F9       707          sta VAL2
B918             708          ;
B918 4A          709 LBL48    lsr
B919 90 02       710          bcc LBL49
B91B             711          ;
B91B E6 F9       712          inc VAL2
B91D             713          ;
B91D 0A          714 LBL49    asl
B91E             715          ;
B91E 85 FA       716          sta NUMIN
B920             717          ;
B920 AA          718          tax
B921             719          ;
B921 E8          720          inx
B922 E8          721          inx
B923             722          ;
B923 A9 A0       723          lda #SPACE
B925             724          ;
B925 20 4C F9    725          jsr PRBL3
B928             726          ;
B928 A5 FE       727          lda LINENUM
B92A AA          728          tax
B92B             729          ;
B92B 38          730          sec
B92C             731          ;

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```
B92C AD 14 01    732          lda LINELEN
B92F E5 FA      733          sbc NUMIN
B931           734          ;
B931 F0 49      735          beq LBL57
B933 90 47      736          bcc LBL57
B935           737          ;
B935 A8         738          tay
B936           739          ;
B936 C5 FE      740          cmp LINENUM
B938 90 04      741          bcc LBL50
B93A           742          ;
B93A A5 FF      743          lda LINENUM+1
B93C F0 0E      744          beq LBL51
B93E           745          ;
B93E 88         746 LBL50    dey
B93F F0 3B      747          beq LBL57
B941           748          ;
B941 B1 FC      749          lda (BUFR),Y
B943 29 7F      750          and #ASCIMASK
B945           751          ;
B945 C9 20      752          cmp #' '
B947 D0 F5      753          bne LBL50
B949           754          ;
B949 98         755          tya
B94A AA         756          tax
B94B           757          ;
B94B E8         758          inx
B94C           759          ;
B94C A0 00      760 LBL51    ldy #ZERO
B94E           761          ;
B94E B1 FC      762 LBL52    lda (BUFR),Y
B950 09 80      763          ora #ASCIFLAG
B952           764          ;
B952 20 ED FD   765          jsr COUT
B955           766          ;
B955 E6 FC      767          inc BUFR
B957 D0 02      768          bne LBL53
B959           769          ;
B959 E6 FD      770          inc BUFR+1
B95B           771          ;
B95B C6 FE      772 LBL53    dec LINENUM
B95D D0 02      773          bne LBL54
B95F           774          ;
B95F C6 FF      775          dec LINENUM+1
B961           776          ;
B961 CA         777 LBL54    dex
B962 D0 EA      778          bne LBL52
B964           779          ;
B964 20 8E FD   780 LBL55    jsr CROUT
B967           781          ;
B967 A5 FE      782          lda LINENUM
B969 D0 04      783          bne LBL56
B96B           784          ;
B96B A5 FB      785          lda NUMIN+1
B96D D0 95      786          bne LBL45
B96F           787          ;
B96F A2 05      788 LBL56    ldx #5
B971           789          ;
B971 A9 A0      790          lda #SPACE
B973           791          ;
B973 20 4C F9   792          jsr PRBL3
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B976          793 ;
B976 A5 FE    794      lda LINENUM
B978 F0 8A    795      beq LBL45
B97A          796 ;
B97A D0 94    797      bne LBL47          ; always taken
B97C          798 ;
B97C A0 DE    799 LBL57      ldy #ERRMSOFF-OFFSETBL
B97E          800 ;
B97E 18       801      clc
B97F          802 ;
B97F B1 EC    803      lda (PTR1),Y
B981 6D 10 01 804      adc STARTADR
B984 85 EE    805      sta PTR2
B986          806 ;
B986 C8       807      iny
B987          808 ;
B987 B1 EC    809      lda (PTR1),Y
B989 6D 11 01 810      adc STARTADR+1
B98C 85 EF    811      sta PTR2+1
B98E          812 ;
B98E A0 FF    813      ldy #NEGONE
B990          814 ;
B990 C8       815 LBL58      iny
B991          816 ;
B991 B1 EE    817      lda (PTR2),Y
B993 48       818      pha
B994 09 80    819      ora #ASCIFLAG
B996          820 ;
B996 20 ED FD 821      jsr COUT
B999          822 ;
B999 68       823      pla
B99A 30 F4    824      bmi LBL58
B99C          825 ;
B99C 20 8E FD 826      jsr CROUT
B99F          827 ;
B99F A9 00    828      lda #ZERO
B9A1 85 FE    829      sta LINENUM
B9A3 F0 BF    830      beq LBL55          ; always taken
B9A5          831 ;
B9A5          832 ;
B9A5          833 OFFSETBL:
B9A5 85 04    834      adr CMD01-START
B9A7 88 04    835      adr CMD02-START
B9A9 8B 04    836      adr CMD03-START
B9AB 8F 04    837      adr CMD04-START
B9AD 93 04    838      adr CMD05-START
B9AF 98 04    839      adr CMD06-START
B9B1 9B 04    840      adr CMD07-START
B9B3 9E 04    841      adr CMD08-START
B9B5 A2 04    842      adr CMD09-START
B9B7 A4 04    843      adr CMD10-START
B9B9 A8 04    844      adr CMD11-START
B9BB AB 04    845      adr CMD12-START
B9BD AE 04    846      adr CMD13-START
B9BF B2 04    847      adr CMD14-START
B9C1 B6 04    848      adr CMD15-START
B9C3 BA 04    849      adr CMD16-START
B9C5 BE 04    850      adr CMD17-START
B9C7 C2 04    851      adr CMD18-START
B9C9 C5 04    852      adr CMD19-START
B9CB CD 04    853      adr CMD20-START

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B9CD	D2	04	854	adr	CMD21-START
B9CF	D6	04	855	adr	CMD22-START
B9D1	DB	04	856	adr	CMD23-START
B9D3	DF	04	857	adr	CMD24-START
B9D5	E3	04	858	adr	CMD25-START
B9D7	E8	04	859	adr	CMD26-START
B9D9	EF	04	860	adr	CMD27-START
B9DB	F5	04	861	adr	CMD28-START
B9DD	FA	04	862	adr	CMD29-START
B9DF	01	05	863	adr	CMD30-START
B9E1	07	05	864	adr	CMD31-START
B9E3	0E	05	865	adr	CMD32-START
B9E5	13	05	866	adr	CMD33-START
B9E7	1A	05	867	adr	CMD34-START
B9E9	1D	05	868	adr	CMD35-START
B9EB	21	05	869	adr	CMD36-START
B9ED	27	05	870	adr	CMD37-START
B9EF	2D	05	871	adr	CMD38-START
B9F1	32	05	872	adr	CMD39-START
B9F3	38	05	873	adr	CMD40-START
B9F5	3E	05	874	adr	CMD41-START
B9F7	43	05	875	adr	CMD42-START
B9F9	4A	05	876	adr	CMD43-START
B9FB	4D	05	877	adr	CMD44-START
B9FD	51	05	878	adr	CMD45-START
B9FF	54	05	879	adr	CMD46-START
BA01	56	05	880	adr	CMD47-START
BA03	5D	05	881	adr	CMD48-START
BA05	5E	05	882	adr	CMD49-START
BA07	63	05	883	adr	CMD50-START
BA09	69	05	884	adr	CMD51-START
BA0B	6C	05	885	adr	CMD52-START
BA0D	70	05	886	adr	CMD53-START
BA0F	72	05	887	adr	CMD54-START
BA11	76	05	888	adr	CMD55-START
BA13	7A	05	889	adr	CMD56-START
BA15	7E	05	890	adr	CMD57-START
BA17	81	05	891	adr	CMD58-START
BA19	85	05	892	adr	CMD59-START
BA1B	8A	05	893	adr	CMD60-START
BA1D	8E	05	894	adr	CMD61-START
BA1F	92	05	895	adr	CMD62-START
BA21	97	05	896	adr	CMD63-START
BA23	9A	05	897	adr	CMD64-START
BA25	9D	05	898	adr	CMD65-START
BA27	A2	05	899	adr	CMD66-START
BA29	A4	05	900	adr	CMD67-START
BA2B	A6	05	901	adr	CMD68-START
BA2D	AB	05	902	adr	CMD69-START
BA2F	AF	05	903	adr	CMD70-START
BA31	B1	05	904	adr	CMD71-START
BA33	B4	05	905	adr	CMD72-START
BA35	B8	05	906	adr	CMD73-START
BA37	BA	05	907	adr	CMD74-START
BA39	BC	05	908	adr	CMD75-START
BA3B	BE	05	909	adr	CMD76-START
BA3D	C0	05	910	adr	CMD77-START
BA3F	C2	05	911	adr	CMD78-START
BA41	C6	05	912	adr	CMD79-START
BA43	C9	05	913	adr	CMD80-START
BA45	CB	05	914	adr	CMD81-START

BA47	CD	05	915	adr	CMD82-START		
BA49	CF	05	916	adr	CMD83-START		
BA4B	D2	05	917	adr	CMD84-START		
BA4D	D5	05	918	adr	CMD85-START		
BA4F	D8	05	919	adr	CMD86-START		
BA51	DB	05	920	adr	CMD87-START		
BA53	DE	05	921	adr	CMD88-START		
BA55	E4	05	922	adr	CMD89-START		
BA57	E7	05	923	adr	CMD90-START		
BA59	EA	05	924	adr	CMD91-START		
BA5B	ED	05	925	adr	CMD92-START		
BA5D	F0	05	926	adr	CMD93-START		
BA5F	F3	05	927	adr	CMD94-START		
BA61	F6	05	928	adr	CMD95-START		
BA63	F9	05	929	adr	CMD96-START		
BA65	FC	05	930	adr	CMD97-START		
BA67	FF	05	931	adr	CMD98-START		
BA69	02	06	932	adr	CMD99-START		
BA6B	06	06	933	adr	CMD100-START		
BA6D	09	06	934	adr	CMD101-START		
BA6F	0D	06	935	adr	CMD102-START		
BA71	10	06	936	adr	CMD103-START		
BA73	13	06	937	adr	CMD104-START		
BA75	17	06	938	adr	CMD105-START		
BA77	1C	06	939	adr	CMD106-START		
BA79	22	06	940	adr	CMD107-START		
BA7B			941	;			
BA7B	26	06	942	MESG1OFF	adr	MESG1-START	
BA7D	47	06	943	MESG2OFF	adr	MESG2-START	
BA7F	5A	06	944	MESG3OFF	adr	MESG3-START	
BA81	69	06	945	MESG4OFF	adr	MESG4-START	
BA83	80	06	946	ERRMSOFF	adr	ERRMESG-START	
BA85			947	;			
BA85	C5	CE	44	948	CMD01	dci	"END"
BA88	C6	CF	52	949	CMD02	dci	"FOR"
BA8B	CE	C5	D8	950	CMD03	dci	"NEXT"
BA8E	54						
BA8F	C4	C1	D4	951	CMD04	dci	"DATA"
BA92	41						
BA93	C9	CE	D0	952	CMD05	dci	"INPUT"
BA96	D5	54					
BA98	C4	C5	4C	953	CMD06	dci	"DEL"
BA9B	C4	C9	4D	954	CMD07	dci	"DIM"
BA9E	D2	C5	C1	955	CMD08	dci	"READ"
BAA1	44						
BAA2	C7	52		956	CMD09	dci	"GR"
BAA4	D4	C5	D8	957	CMD10	dci	"TEXT"
BAA7	54						
BAA8	D0	D2	23	958	CMD11	dci	"PR#"
BAAB	C9	CE	23	959	CMD12	dci	"IN#"
BAAE	C3	C1	CC	960	CMD13	dci	"CALL"
BAB1	4C						
BAB2	D0	CC	CF	961	CMD14	dci	"PLOT"
BAB5	54						
BAB6	C8	CC	C9	962	CMD15	dci	"HLIN"
BAB9	4E						
BABA	D6	CC	C9	963	CMD16	dci	"VLIN"
BABD	4E						
BABE	C8	C7	D2	964	CMD17	dci	"HGR2"
BAC1	32						
BAC2	C8	C7	52	965	CMD18	dci	"HGR"

BAC5	C8	C3	CF	966	CMD19	dc	"HCOLOR ="
BAC8	CC	CF	D2				
BACB	A0	3D					
BACD	C8	D0	CC	967	CMD20	dc	"HPLOT"
BAD0	CF	54					
BAD2	C4	D2	C1	968	CMD21	dc	"DRAW"
BAD5	57						
BAD6	D8	C4	D2	969	CMD22	dc	"XDRAW"
BAD9	C1	57					
BADB	C8	D4	C1	970	CMD23	dc	"HTAB"
BADE	42						
BADF	C8	CF	CD	971	CMD24	dc	"HOME"
BAE2	45						
BAE3	D2	CF	D4	972	CMD25	dc	"ROT ="
BAE6	A0	3D					
BAE8	D3	C3	C1	973	CMD26	dc	"SCALE ="
BAEB	CC	C5	A0				
BAEE	3D						
BAEF	D3	C8	CC	974	CMD27	dc	"SHLOAD"
BAF2	CF	C1	44				
BAF5	D4	D2	C1	975	CMD28	dc	"TRACE"
BAF8	C3	45					
BAFA	CE	CF	D4	976	CMD29	dc	"NOTRACE"
BAFD	D2	C1	C3				
BB00	45						
BB01	CE	CF	D2	977	CMD30	dc	"NORMAL"
BB04	CD	C1	4C				
BB07	C9	CE	D6	978	CMD31	dc	"INVERSE"
BB0A	C5	D2	D3				
BB0D	45						
BB0E	C6	CC	C1	979	CMD32	dc	"FLASH"
BB11	D3	48					
BB13	C3	CF	CC	980	CMD33	dc	"COLOR ="
BB16	CF	D2	A0				
BB19	3D						
BB1A	D0	CF	50	981	CMD34	dc	"POP"
BB1D	D6	D4	C1	982	CMD35	dc	"VTAB"
BB20	42						
BB21	C8	C9	CD	983	CMD36	dc	"HIMEM:"
BB24	C5	CD	3A				
BB27	CC	CF	CD	984	CMD37	dc	"LOMEM:"
BB2A	C5	CD	3A				
BB2D	CF	CE	C5	985	CMD38	dc	"ONERR"
BB30	D2	52					
BB32	D2	C5	D3	986	CMD39	dc	"RESUME"
BB35	D5	CD	45				
BB38	D2	C5	C3	987	CMD40	dc	"RECALL"
BB3B	C1	CC	4C				
BB3E	D3	D4	CF	988	CMD41	dc	"STORE"
BB41	D2	45					
BB43	D3	D0	C5	989	CMD42	dc	"SPEED ="
BB46	C5	C4	A0				
BB49	3D						
BB4A	CC	C5	54	990	CMD43	dc	"LET"
BB4D	C7	CF	D4	991	CMD44	dc	"GOTO"
BB50	4F						
BB51	D2	D5	4E	992	CMD45	dc	"RUN"
BB54	C9	46		993	CMD46	dc	"IF"
BB56	D2	C5	D3	994	CMD47	dc	"RESTORE"
BB59	D4	CF	D2				
BB5C	45						

BB5D	26			995	CMD48	dci	"&"
BB5E	C7	CF	D3	996	CMD49	dci	"GOSUB"
BB61	D5	42					
BB63	D2	C5	D4	997	CMD50	dci	"RETURN"
BB66	D5	D2	4E				
BB69	D2	C5	4D	998	CMD51	dci	"REM"
BB6C	D3	D4	CF	999	CMD52	dci	"STOP"
BB6F	50						
BB70	CF	4E		1000	CMD53	dci	"ON"
BB72	D7	C1	C9	1001	CMD54	dci	"WAIT"
BB75	54						
BB76	CC	CF	C1	1002	CMD55	dci	"LOAD"
BB79	44						
BB7A	D3	C1	D6	1003	CMD56	dci	"SAVE"
BB7D	45						
BB7E	C4	C5	46	1004	CMD57	dci	"DEF"
BB81	D0	CF	CB	1005	CMD58	dci	"POKE"
BB84	45						
BB85	D0	D2	C9	1006	CMD59	dci	"PRINT"
BB88	CE	54					
BB8A	C3	CF	CE	1007	CMD60	dci	"CONT"
BB8D	54						
BB8E	CC	C9	D3	1008	CMD61	dci	"LIST"
BB91	54						
BB92	C3	CC	C5	1009	CMD62	dci	"CLEAR"
BB95	C1	52					
BB97	C7	C5	54	1010	CMD63	dci	"GET"
BB9A	CE	C5	57	1011	CMD64	dci	"NEW"
BB9D	D4	C1	C2	1012	CMD65	asc	"TAB("
BBA0	A8						
BBA1	00			1013		hex	00
BBA2	D4	4F		1014	CMD66	dci	"TO"
BBA4	C6	4E		1015	CMD67	dci	"FN"
BBA6	D3	D0	C3	1016	CMD68	asc	"SPC("
BBA9	A8						
BBAA	00			1017		hex	00
BBAB	D4	C8	C5	1018	CMD69	dci	"THEN"
BBAE	4E						
BBAF	C1	54		1019	CMD70	dci	"AT"
BBB1	CE	CF	54	1020	CMD71	dci	"NOT"
BBB4	D3	D4	C5	1021	CMD72	dci	"STEP"
BBB7	50						
BBB8	AB			1022	CMD73	asc	"+"
BBB9	00			1023		hex	00
BBBA	AD			1024	CMD74	asc	"-"
BBBB	00			1025		hex	00
BBBC	AA			1026	CMD75	asc	"*"
BBBD	00			1027		hex	00
BBBE	AF			1028	CMD76	asc	"/"
BBBF	00			1029		hex	00
BBC0	DE			1030	CMD77	asc	"^"
BBC1	00			1031		hex	00
BBC2	C1	CE	C4	1032	CMD78	asc	"AND"
BBC5	00			1033		hex	00
BBC6	CF	D2		1034	CMD79	asc	"OR"
BBC8	00			1035		hex	00
BBC9	BE			1036	CMD80	asc	">"
BBCA	00			1037		hex	00
BBCB	BD			1038	CMD81	asc	"="
BBCC	00			1039		hex	00
BBCD	BC			1040	CMD82	asc	"<"

BBCE	00		1041		hex	00	
BBCF	D3	C7	4E	1042	CMD83	dci	"SGN"
BBD2	C9	CE	54	1043	CMD84	dci	"INT"
BBD5	C1	C2	53	1044	CMD85	dci	"ABS"
BBD8	D5	D3	52	1045	CMD86	dci	"USR"
BBDB	C6	D2	45	1046	CMD87	dci	"FRE"
BBDE	D3	C3	D2	1047	CMD88	asc	"SCRN("
BBE1	CE	A8					
BBE3	00		1048		hex	00	
BBE4	D0	C4	4C	1049	CMD89	dci	"PDL"
BBE7	D0	CF	53	1050	CMD90	dci	"POS"
BBEA	D3	D1	52	1051	CMD91	dci	"SQR"
BBED	D2	CE	44	1052	CMD92	dci	"RND"
BBF0	CC	CF	47	1053	CMD93	dci	"LOG"
BBF3	C5	D8	50	1054	CMD94	dci	"EXP"
BBF6	C3	CF	53	1055	CMD95	dci	"COS"
BBF9	D3	C9	4E	1056	CMD96	dci	"SIN"
BBFC	D4	C1	4E	1057	CMD97	dci	"TAN"
BBFF	C1	D4	4E	1058	CMD98	dci	"ATN"
BC02	D0	C5	C5	1059	CMD99	dci	"PEEK"
BC05	4B						
BC06	CC	C5	4E	1060	CMD100	dci	"LEN"
BC09	D3	D4	D2	1061	CMD101	dci	"STR\$"
BC0C	24						
BC0D	D6	C1	4C	1062	CMD102	dci	"VAL"
BC10	C1	D3	43	1063	CMD103	dci	"ASC"
BC13	C3	C8	D2	1064	CMD104	dci	"CHR\$"
BC16	24						
BC17	CC	C5	C6	1065	CMD105	dci	"LEFT\$"
BC1A	D4	24					
BC1C	D2	C9	C7	1066	CMD106	dci	"RIGHT\$"
BC1F	C8	D4	24				
BC22	CD	C9	C4	1067	CMD107	dci	"MID\$"
BC25	24						
BC26			1068	;			
BC26	CD	E1	F8	1069	MESG1	dci	"Maximum Characters/Line (<161): "
BC29	E9	ED	F5				
BC2C	ED	A0	C3				
BC2F	E8	E1	F2				
BC32	E1	E3	F4				
BC35	E5	F2	F3				
BC38	AF	CC	E9				
BC3B	EE	E5	A0				
BC3E	A8	BC	B1				
BC41	B6	B1	A9				
BC44	BA	A0	20				
BC47	D3	F0	EC	1070	MESG2	dci	"Split Line (Y,N): "
BC4A	E9	F4	A0				
BC4D	CC	E9	EE				
BC50	E5	A0	A8				
BC53	D9	AC	CE				
BC56	A9	BA	A0				
BC59	20						
BC5A	C9	EE	E4	1071	MESG3	dci	"Indent (Y,N): "
BC5D	E5	EE	F4				
BC60	A0	A8	D9				
BC63	AC	CE	A9				
BC66	BA	A0	20				
BC69	C5	E3	E8	1072	MESG4	dci	"Echo to Screen (Y,N): "
BC6C	EF	A0	F4				
BC6F	EF	A0	D3				

```

BC72 E3 F2 E5
BC75 E5 EE A0
BC78 A8 D9 AC
BC7B CE A9 BA
BC7E A0 20
BC80          1073 ;
BC80 CC E9 EE 1074 ERRMSG dci "Line Too Long"
BC83 E5 A0 D4
BC86 EF EF A0
BC89 CC EF EE
BC8C 67
BC8D          1075 ;
BC8D          1076 ;
BC8D C9 28    1077 CODE1    cmp #'('
BC8F F0 08    1078          beq >1
BC91          1079 ;
BC91 C9 A0    1080          cmp #SPACE
BC93 D0 06    1081          bne >2
BC95          1082 ;
BC95 E0 01    1083          cpx #1
BC97 F0 15    1084          beq >4
BC99          1085 ;
BC99 A2 00    1086 ^1      ldx #ZERO
BC9B          1087 ;
BC9B E8       1088 ^2      inx
BC9C          1089 ;
BC9C 91 FC    1090          sta (BUFR),Y
BC9E          1091 ;
BC9E 09 80    1092          ora #ASCIFLAG
BCA0 85 E3    1093          sta LASTCHAR
BCA2          1094 ;
BCA2 E6 FC    1095          inc BUFR
BCA4 D0 02    1096          bne >3
BCA6          1097 ;
BCA6 E6 FD    1098          inc BUFR+1
BCA8          1099 ;
BCA8 E6 FE    1100 ^3      inc LINENUM
BCAA D0 02    1101          bne >4
BCAC          1102 ;
BCAC E6 FF    1103          inc LINENUM+1
BCAE          1104 ;
BCAE 18       1105 ^4      clc
BCAF          1106 ;
BCAF 60       1107          rts
BCB0          1108 ;
BCB0          1109 ;
BCB0 85 EF    1110 CODE2    sta PTR2+1
BCB2          1111 ;
BCB2 A0 10    1112          ldy #$10
BCB4          1113 ;
BCB4 38       1114 ^1      sec
BCB5          1115 ;
BCB5 A5 FE    1116          lda LINENUM
BCB7 E5 EE    1117          sbc PTR2
BCB9 85 FA    1118          sta NUMIN
BCBB          1119 ;
BCBB A5 FF    1120          lda LINENUM+1
BCBD E5 EF    1121          sbc PTR2+1
BCBF 85 FB    1122          sta NUMIN+1
BCC1 90 0C    1123          bcc >2
BCC3          1124 ;

```

```
BCC3 A5 FA      1125      lda NUMIN
BCC5 85 FE      1126      sta LINENUM
BCC7           1127      ;
BCC7 A5 FB      1128      lda NUMIN+1
BCC9 85 FF      1129      sta LINENUM+1
BCCB           1130      ;
BCCB E8         1131      inx
BCCC           1132      ;
BCCC C8         1133      iny
BCCD D0 E5      1134      bne <1
BCCF           1135      ;
BCCF 8A         1136      ^2    txa
BCD0 F0 01      1137      beq >3
BCD2           1138      ;
BCD2 98         1139      tya
BCD3           1140      ;
BCD3 09 A0      1141      ^3    ora #SPACE
BCD5           1142      ;
BCD5 20 ED FD   1143      jsr COUT
BCD8           1144      ;
BCD8 60         1145      rts
BCD9           1146      ;
BCD9           1147      ;
BCD9           1148      BUFFER:
BCD9           1149      ;
BCD9           1150      ;

BSAVE ASLIST,A$1000,B,L$06D9

BCD9           1151      usr ASLIST
BCD9           1152      ;
BCD9           1153      ;
BCD9           1154      stt "ASLIST Symbol Table"
BCD9           1155      ;
BCD9           1156      ;
BCD9           1157      end 111
```

*** End of Assembly

Symbol List starts at 0x7800, ends at 0x8084, used 0x0884, remaining 0x3710

Symbols unsorted:

WNDTOP	0022	CV	0025	INVFLG	0032	TEXTTAB	0067	TXTPTR	00CE
LASTCHAR	00E3	FLAGS	00EB	PTR1	00EC	PTR2	00EE	VAL2	00F9
NUMIN	00FA	BUFR	00FC	LINENUM	00FE	ZERO	0000	CTRLC	008C
RETURN	008D	SPACE	00A0	MAXLINE	00A1	NEGONE	00FF	NUMMASK	000F
ASCIMASK	007F	ASCIFLAG	0080	ECHOOFF	00A0	STARTADR	0110	BUFRADR	0112
LINELEN	0114	JMPVEC1	0115	JMPVEC2	0118	DOSWARM	03D0	PRBL3	F94C
HOME	FC58	RDKEY	FD0C	CROUT	FD8E	COUT	FD8E	OUTPORT	FE95
IORTS	FF58	START	B600	LBL01	B65E	LBL02	B67E	LBL03	B68C
LBL04	B6A9	LBL05	B6AC	LBL06	B6C1	LBL07	B6C6	LBL08	B6D4
LBL09	B6D8	LBL10	B6E6	LBL11	B718	LBL12	B72F	LBL13	B731
LBL14	B74E	LBL15	B76B	LBL16	B76D	LBL17	B78A	LBL18	B79F
LBL19	B7B1	LBL20	B7BF	LBL21	B7D2	LBL22	B7ED	LBL23	B81A
LBL24	B833	LBL25	B83B	LBL26	B843	LBL27	B847	LBL28	B85A
LBL29	B86B	LBL30	B878	LBL31	B883	LBL32	B888	LBL33	B892
LBL34	B89A	LBL35	B89E	LBL36	B8AA	LBL37	B8AE	LBL38	B8B0
LBL39	B8B2	LBL40	B8C0	LBL41	B8C8	LBL42	B8D0	LBL43	B8EB
LBL44	B8F9	LBL45	B904	LBL46	B906	LBL47	B910	LBL48	B918
LBL49	B91D	LBL50	B93E	LBL51	B94C	LBL52	B94E	LBL53	B95B
LBL54	B961	LBL55	B964	LBL56	B96F	LBL57	B97C	LBL58	B990
OFFSETBL	B9A5	MESG1OFF	BA7B	MESG2OFF	BA7D	MESG3OFF	BA7F	MESG4OFF	BA81
ERRMSOFF	BA83	CMD01	BA85	CMD02	BA88	CMD03	BA8B	CMD04	BA8F
CMD05	BA93	CMD06	BA98	CMD07	BA9B	CMD08	BA9E	CMD09	BAA2
CMD10	BAA4	CMD11	BAA8	CMD12	BAAB	CMD13	BAAE	CMD14	BAB2
CMD15	BAB6	CMD16	BABA	CMD17	BABE	CMD18	BAC2	CMD19	BAC5
CMD20	BACD	CMD21	BAD2	CMD22	BAD6	CMD23	BADB	CMD24	BADF
CMD25	BAE3	CMD26	BAE8	CMD27	BAEF	CMD28	BAF5	CMD29	BAFA
CMD30	BB01	CMD31	BB07	CMD32	BB0E	CMD33	BB13	CMD34	BB1A
CMD35	BB1D	CMD36	BB21	CMD37	BB27	CMD38	BB2D	CMD39	BB32
CMD40	BB38	CMD41	BB3E	CMD42	BB43	CMD43	BB4A	CMD44	BB4D
CMD45	BB51	CMD46	BB54	CMD47	BB56	CMD48	BB5D	CMD49	BB5E
CMD50	BB63	CMD51	BB69	CMD52	BB6C	CMD53	BB70	CMD54	BB72
CMD55	BB76	CMD56	BB7A	CMD57	BB7E	CMD58	BB81	CMD59	BB85
CMD60	BB8A	CMD61	BB8E	CMD62	BB92	CMD63	BB97	CMD64	BB9A
CMD65	BB9D	CMD66	BBA2	CMD67	BBA4	CMD68	BBA6	CMD69	BBAB
CMD70	BBAF	CMD71	BBB1	CMD72	BBB4	CMD73	BBB8	CMD74	BBBA
CMD75	BBBC	CMD76	BBBE	CMD77	BBC0	CMD78	BBC2	CMD79	BBC6
CMD80	BBC9	CMD81	BBCB	CMD82	BBCD	CMD83	BBCF	CMD84	BBD2
CMD85	BBD5	CMD86	BBD8	CMD87	BBDB	CMD88	BBDE	CMD89	BBE4
CMD90	BBE7	CMD91	BBEA	CMD92	BBED	CMD93	BBF0	CMD94	BBF3
CMD95	BBF6	CMD96	BBF9	CMD97	BBFC	CMD98	BBFF	CMD99	BC02
CMD100	BC06	CMD101	BC09	CMD102	BC0D	CMD103	BC10	CMD104	BC13
CMD105	BC17	CMD106	BC1C	CMD107	BC22	MESG1	BC26	MESG2	BC47
MESG3	BC5A	MESG4	BC69	ERRMESG	BC80	CODE1	BC8D	CODE2	BCB0
BUFFER	BCD9								

Symbols alphabetically sorted:

ASCIFLAG	0080	ASCIMASK	007F	BUFFER	BCD9	BUFR	00FC	BUFRADR	0112
CMD01	BA85	CMD02	BA88	CMD03	BA8B	CMD04	BA8F	CMD05	BA93
CMD06	BA98	CMD07	BA9B	CMD08	BA9E	CMD09	BAA2	CMD10	BAA4
CMD100	BC06	CMD101	BC09	CMD102	BC0D	CMD103	BC10	CMD104	BC13
CMD105	BC17	CMD106	BC1C	CMD107	BC22	CMD11	BAA8	CMD12	BAAB
CMD13	BAAE	CMD14	BAB2	CMD15	BAB6	CMD16	BABA	CMD17	BABE
CMD18	BAC2	CMD19	BAC5	CMD20	BACD	CMD21	BAD2	CMD22	BAD6
CMD23	BADB	CMD24	BADF	CMD25	BAE3	CMD26	BAE8	CMD27	BAEF

CMD28	BAF5	CMD29	BAFA	CMD30	BB01	CMD31	BB07	CMD32	BB0E
CMD33	BB13	CMD34	BB1A	CMD35	BB1D	CMD36	BB21	CMD37	BB27
CMD38	BB2D	CMD39	BB32	CMD40	BB38	CMD41	BB3E	CMD42	BB43
CMD43	BB4A	CMD44	BB4D	CMD45	BB51	CMD46	BB54	CMD47	BB56
CMD48	BB5D	CMD49	BB5E	CMD50	BB63	CMD51	BB69	CMD52	BB6C
CMD53	BB70	CMD54	BB72	CMD55	BB76	CMD56	BB7A	CMD57	BB7E
CMD58	BB81	CMD59	BB85	CMD60	BB8A	CMD61	BB8E	CMD62	BB92
CMD63	BB97	CMD64	BB9A	CMD65	BB9D	CMD66	BBA2	CMD67	BBA4
CMD68	BBA6	CMD69	BBAB	CMD70	BBAF	CMD71	BBB1	CMD72	BBB4
CMD73	BBB8	CMD74	BBBA	CMD75	BBBC	CMD76	BBBE	CMD77	BBC0
CMD78	BBC2	CMD79	BBC6	CMD80	BBC9	CMD81	BBCB	CMD82	BBCD
CMD83	BBCF	CMD84	BBD2	CMD85	BBD5	CMD86	BBD8	CMD87	BBDB
CMD88	BBDE	CMD89	BBE4	CMD90	BBE7	CMD91	BBEA	CMD92	BBED
CMD93	BBF0	CMD94	BBF3	CMD95	BBF6	CMD96	BBF9	CMD97	BBFC
CMD98	BBFF	CMD99	BC02	CODE1	BC8D	CODE2	BCB0	COUT	FDDED
CROUT	FD8E	CTRLC	008C	CV	0025	DOSWARM	03D0	ECHOOFF	00A0
ERRMESG	BC80	ERRMSOFF	BA83	FLAGS	00EB	HOME	FC58	INVFLG	0032
IORTS	FF58	JMPVEC1	0115	JMPVEC2	0118	LASTCHAR	00E3	LBL01	B65E
LBL02	B67E	LBL03	B68C	LBL04	B6A9	LBL05	B6AC	LBL06	B6C1
LBL07	B6C6	LBL08	B6D4	LBL09	B6D8	LBL10	B6E6	LBL11	B718
LBL12	B72F	LBL13	B731	LBL14	B74E	LBL15	B76B	LBL16	B76D
LBL17	B78A	LBL18	B79F	LBL19	B7B1	LBL20	B7BF	LBL21	B7D2
LBL22	B7ED	LBL23	B81A	LBL24	B833	LBL25	B83B	LBL26	B843
LBL27	B847	LBL28	B85A	LBL29	B86B	LBL30	B878	LBL31	B883
LBL32	B888	LBL33	B892	LBL34	B89A	LBL35	B89E	LBL36	B8AA
LBL37	B8AE	LBL38	B8B0	LBL39	B8B2	LBL40	B8C0	LBL41	B8C8
LBL42	B8D0	LBL43	B8EB	LBL44	B8F9	LBL45	B904	LBL46	B906
LBL47	B910	LBL48	B918	LBL49	B91D	LBL50	B93E	LBL51	B94C
LBL52	B94E	LBL53	B95B	LBL54	B961	LBL55	B964	LBL56	B96F
LBL57	B97C	LBL58	B990	LINELEN	0114	LINENUM	00FE	MAXLINE	00A1
MESG1	BC26	MESG1OFF	BA7B	MESG2	BC47	MESG2OFF	BA7D	MESG3	BC5A
MESG3OFF	BA7F	MESG4	BC69	MESG4OFF	BA81	NEGONE	00FF	NUMIN	00FA
NUMMASK	000F	OFFSETBL	B9A5	OUTPORT	FE95	PRBL3	F94C	PTR1	00EC
PTR2	00EE	RDKEY	FD0C	RETURN	008D	SPACE	00A0	START	B600
STARTADR	0110	TEXTTAB	0067	TXTPTR	00CE	VAL2	00F9	WNDTOP	0022
ZERO	0000								

Symbols numerically sorted:

ZERO	0000	NUMMASK	000F	WNDTOP	0022	CV	0025	INVFLG	0032
TEXTTAB	0067	ASCIMASK	007F	ASCIFLAG	0080	CTRLC	008C	RETURN	008D
SPACE	00A0	ECHOOFF	00A0	MAXLINE	00A1	TXTPTR	00CE	LASTCHAR	00E3
FLAGS	00EB	PTR1	00EC	PTR2	00EE	VAL2	00F9	NUMIN	00FA
BUFR	00FC	LINENUM	00FE	NEGONE	00FF	STARTADR	0110	BUFRADR	0112
LINELEN	0114	JMPVEC1	0115	JMPVEC2	0118	DOSWARM	03D0	START	B600
LBL01	B65E	LBL02	B67E	LBL03	B68C	LBL04	B6A9	LBL05	B6AC
LBL06	B6C1	LBL07	B6C6	LBL08	B6D4	LBL09	B6D8	LBL10	B6E6
LBL11	B718	LBL12	B72F	LBL13	B731	LBL14	B74E	LBL15	B76B
LBL16	B76D	LBL17	B78A	LBL18	B79F	LBL19	B7B1	LBL20	B7BF
LBL21	B7D2	LBL22	B7ED	LBL23	B81A	LBL24	B833	LBL25	B83B
LBL26	B843	LBL27	B847	LBL28	B85A	LBL29	B86B	LBL30	B878
LBL31	B883	LBL32	B888	LBL33	B892	LBL34	B89A	LBL35	B89E
LBL36	B8AA	LBL37	B8AE	LBL38	B8B0	LBL39	B8B2	LBL40	B8C0
LBL41	B8C8	LBL42	B8D0	LBL43	B8EB	LBL44	B8F9	LBL45	B904
LBL46	B906	LBL47	B910	LBL48	B918	LBL49	B91D	LBL50	B93E
LBL51	B94C	LBL52	B94E	LBL53	B95B	LBL54	B961	LBL55	B964
LBL56	B96F	LBL57	B97C	LBL58	B990	OFFSETBL	B9A5	MESG1OFF	BA7B
MESG2OFF	BA7D	MESG3OFF	BA7F	MESG4OFF	BA81	ERRMSOFF	BA83	CMD01	BA85
CMD02	BA88	CMD03	BA8B	CMD04	BA8F	CMD05	BA93	CMD06	BA98
CMD07	BA9B	CMD08	BA9E	CMD09	BAA2	CMD10	BAA4	CMD11	BAA8

CMD12	BAAB	CMD13	BAAE	CMD14	BAB2	CMD15	BAB6	CMD16	BABA
CMD17	BABE	CMD18	BAC2	CMD19	BAC5	CMD20	BACD	CMD21	BAD2
CMD22	BAD6	CMD23	BADB	CMD24	BADF	CMD25	BAE3	CMD26	BAE8
CMD27	BAEF	CMD28	BAF5	CMD29	BAFA	CMD30	BB01	CMD31	BB07
CMD32	BB0E	CMD33	BB13	CMD34	BB1A	CMD35	BB1D	CMD36	BB21
CMD37	BB27	CMD38	BB2D	CMD39	BB32	CMD40	BB38	CMD41	BB3E
CMD42	BB43	CMD43	BB4A	CMD44	BB4D	CMD45	BB51	CMD46	BB54
CMD47	BB56	CMD48	BB5D	CMD49	BB5E	CMD50	BB63	CMD51	BB69
CMD52	BB6C	CMD53	BB70	CMD54	BB72	CMD55	BB76	CMD56	BB7A
CMD57	BB7E	CMD58	BB81	CMD59	BB85	CMD60	BB8A	CMD61	BB8E
CMD62	BB92	CMD63	BB97	CMD64	BB9A	CMD65	BB9D	CMD66	BBA2
CMD67	BBA4	CMD68	BBA6	CMD69	BBAB	CMD70	BBAF	CMD71	BBB1
CMD72	BBB4	CMD73	BBB8	CMD74	BBBA	CMD75	BBBC	CMD76	BBBE
CMD77	BBC0	CMD78	BBC2	CMD79	BBC6	CMD80	BBC9	CMD81	BBCB
CMD82	BBCD	CMD83	BBCF	CMD84	BBD2	CMD85	BBD5	CMD86	BBD8
CMD87	BBDB	CMD88	BBDE	CMD89	BBE4	CMD90	BBE7	CMD91	BBEA
CMD92	BBED	CMD93	BBF0	CMD94	BBF3	CMD95	BBF6	CMD96	BBF9
CMD97	BBFC	CMD98	BBFF	CMD99	BC02	CMD100	BC06	CMD101	BC09
CMD102	BC0D	CMD103	BC10	CMD104	BC13	CMD105	BC17	CMD106	BC1C
CMD107	BC22	MESG1	BC26	MESG2	BC47	MESG3	BC5A	MESG4	BC69
ERRMESG	BC80	CODE1	BC8D	CODE2	BCB0	BUFFER	BCD9	PRBL3	F94C
HOME	FC58	RDKEY	FD0C	CROUT	FD8E	COUT	FDED	OUTPORT	FE95
IORTS	FF58								