



Tech Info Library

Apple II+ Mini-Assembler (3 of 4)

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0800:                                ORG $800
0800: 20 4B D6                        JSR NEW          ;SCRATCH ANY BASIC PROGRAM
0803: A9 00                        LDA #$00
0805: 8D 00 08                     STA #$0800
0808: 4C 9D 08                     JMP RESETZ      ;BRANCH MINI/ASSEM'S START
080B: E9 81          REL          SBC #$81          ;IS FMT COMPATIBLE
080D: 4A                          LSR A          ;WITH RELATIVE MODE?
080E: D0 14                      BNE ERR3        ;NO.
0810: A4 3F                      LDY A2H
0812: A6 3E                      LDX A2L          ;DOUBLE DECREMENT
0814: D0 01                      BNE REL2
0816: 88                          DEY
0817: CA          REL2          DEX
0818: 8A                          TXA
0819: 18                          CLC
081A: E5 3A                      SBC PCL          ;FORM ADDRESS PC-2
081C: 85 3E                      STA A2L
081E: 10 01                      BPL REL3
0820: C8                          INY
0821: 98          REL3          TYA
0822: E5 3B                      SBC PCH
0824: D0 6B          ERR3        BNE ERR          ;TOO FAR TO BRANCH ERROR
0826:                                *
0826: A4 2F          FINDOP      LDY LENGTH
0828: B9 3D 00          FNDOP2   LDA A1H,Y        ;MOVE INST TO (PC)
082B: 91 3A                      STA (PCL),Y
082D: 88                          DEY
082E: 10 F8                      BPL FNDOP2
0830: 20 1A FC                  JSR CURSUP
0833: 20 1A FC                  JSR CURSUP      ;RESTORE CURSOR
0836: 20 D0 F8                  JSR INSTDSP     ;TYPE FORMATTED LINE
0839: 20 53 F9                  JSR PCADJ       ;UPDATE PC
083C: 84 3B                      STY PCH
083E: 85 3A                      STA PCL
0840: 4C A0 08                  JMP NXTLINE     ;GET NEXT LINE
0843: 20 BE FF          FKM0N3   JSR TOSVB        ;GO TO DELIM HANDLER
0846: A4 34                      LDY YSAV        ;RESTORE Y-INDEX
0848: 20 A7 FF          FKM0N    JSR GETNUM       ;READ PARAM
084B: 84 34                      STY YSAV        ;SAVE Y-INDEX
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084D: A0 17          LDY #$17          ;INIT DELIM INDEX
084F: 88            FKM0N2 DEY          ;CHECK NEXT DELIM
0850: 30 4B          BMI RESETZ        ;ERR IF UNRECOGNIZED DELIM
0852: D9 CC FF      CMP CHRTBL,Y      ;COMPARE WITH DELIM TABLE
0855: D0 F8          BNE FKM0N2        ;NO MATCH
0857: C0 15          CPY #$15          ;MATCH, IS IT CR?
0859: D0 E8          BNE FKM0N3        ;NO HANDLE IT IN MONITOR
085B: A5 31          LDA MODE
085D: A0 00          LDY #$00
085F: C6 34          DEC YSAV
0861: 20 00 FE      JSR BL1            ;HANDLE CR OUTSIDE MONITOR
0864: 4C A0 08      JMP NXTLINE
0867:                *
0867: A5 3D          TRYNEXT LDA A1H      ;GET TRIAL OPCODE
0869: 20 8E F8      JSR INSDS2        ;GET FMT + LENGTH FOR
086C: AA            TAX                ;OPCODE
086D: BD 00 FA      LDA MNEMR,X        ;GET LOWER MNEMONIC BYTE
0870: C5 42          CMP A4L            ;MATCH?
0872: D0 13          BNE NEXTOP        ;NO, TRY NEXT OPCODE
0874: BD C0 F9      LDA MNEML, X      ;GET UPPER MNEMONIC BYTE
0877: C5 43          CMP A4H            ;MATCH ?
0879: D0 0C          BNE NEXTOP        ;NO, TRY NEXT OPCODE
087B: A5 44          LDA FMT
087D: A4 2E          LDY FORMAT        ;GET TRIAL FORMAT
087F: C0 9D          CPY #$9D          ;IS TRIAL FORMAT RELATIVE?
0881: F0 88          BEQ REL            ;YES
0883: C5 2E          CMP FORMAT        ;SAME FORMAT?
0885: F0 9F          BEQ FINDOP        ;YES
0887: C6 3D          NEXTOP DEC A1H      ;NO, TRY NEXT OPCODE
0889: D0 DC          BNE TRYNEXT
088B: E6 44          INC FMT            ;NO MORE, TRY WITH LEN=2
088D: C6 35          DEC L              ;WAS L=2 ALREADY?
088F: F0 D6          BEQ TRYNEXT        ;NO
0891:
0891: A4 34          ERR  LDY YSAV        ;YES, UNRECOGNIZED INST.
0893: 98            ERR2 TYA
0894: AA            TAX
0895: 20 4A F9      JSR PRBL2          ;PRINT ^ UNDER LAST READ
0898: A9 DE          LDA #$DE          ;CHAR TO INDICATE ERROR
089A: 20 ED FD      JSR COUT           ;POSITION
089D: 20 EA FF      RESETZ JSR BELL
08A0: A9 A1          NXTLINE LDA #$A1   ; '!'
08A2: 85 33          STA PROMPT        ;INITIALIZE PROMPT
08A4: 20 67 FD      JSR GETLNZ        ;GET LINE
08A7: 20 C7 FF      JSR ZMODE          ;INIT SCREEN STUFF
<None>

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Keywords: <None>

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