



Tech Info Library

Apple II+ Mini-Assembler (4 of 4)

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08AA: AD 00 02      LDA IN      ;GET CHAR
08AD: C9 A0        CMP #$A0     ;ASCII SPACE?
08AF: F0 13        BEQ SPACE    ;YES
08B1: C8          INY
08B2: C9 A4        CMP #$A4     ;ASCII '$' IN COL 1?
08B4: F0 92        BEQ FKM0N    ;YES, SIMULATE MONITOR
08B6: 88          DEY           ;NO, BACKUP A CHAR
08B7: 20 A7 FF     JSR GETNUM   ;GET A NUMBER
08BA: C9 93        CMP #$93     ;':' TERMINATOR?
08BC: D0 D5      ERR4 BNE ERR2   ;NO, ERR
08BE: 8A          TXA
08BF: F0 D2        BEQ ERR2     ;NO ADDR PRECEDING COLON
08C1: 20 78 FE     JSR A1PCLP   ;MOVE ADDR TO PCL, PCH
08C4: A9 03      SPACE LDA #$03  ;COUNT OF CHAR IN MNEMONIC
08C6: 85 3D        STA A1H
08C8: 20 EF 09   NXTMN JSR GETNSP ;GET 1ST MNEMONIC CHARACTER
08CB: 0A          ASL A
08CC: E9 BE        SBC #$BE     ;SUBTRACT OFFSET
08CE: C9 C2        CMP #$C2     ;LEGAL CHARACTER?
08D0: 90 C1        BCC ERR2     ;NO
08D2: 0A          ASL A         ;COMPRESS-LEFT JUSTIFY
08D3: 0A          ASL A
08D4: A2 04        LDX #$04
08D6: 0A      NXTM2 ASL A       ;DO 5 TRIPLE WORD SHIFTS
08D7: 26 42        ROL A4L
08D9: 26 43        ROL A4H
08DB: CA          DEX
08DC: 10 F8        BPL NXTM2
08DE: C6 3D        DEC A1H      ;DONE WITH 3 CHAR?
08E0: F0 F4        BEQ NXTM2    ;YES BUT DO 1 MORE SHIFT
08E2: 10 E4        BPL NXTMN    ;NO
08E4:              *
08E4: A2 05        LDX #$05     ;5-CHAR ADDRESSING MODE
0836: 20 3F 09   FORM2 JSR GETNSP ;GET 1ST CHAR OF ADDRESS
08E9: 84 34        STY YSAV
08EB: DD B4 F9     CMP CHAR1,X ;1ST CHAR MATCH PATTERN?
08EE: D0 13        BNE FORM3    ;NO
08F0: 20 3F 09     JSR GETNSP   ;YES, GET 2ND CHAR
08F3: DD BA F9     CMP CHAR2,X ;MATCHES SECOND HALF?
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08F6: F0 0N          BEQ FORM5      ;YES
08F8: BD BA F9       LDA CHAR2,X    ;NO, IS 2ND HALF ZERO?
08FB: F0 07          BEQ FORM4      ;YES
08FD: C9 A4          CMP #$A4       ;NO 2ND HAL OPTIONAL?
08FF: F0 03          BEQ FORM4      ;YES
0901: A4 34          LDY YSAV
0903: 18             FORM3 CLC        ;CLEAR CARRY NO MATCH
0904: 88             FORM4 DEY        ;BACK UP ONE CHARACTER
0905: 26 44          FORM5 ROL FMT    ;FORM FORMAT BYTE
0907: E0 03          CPX #$03       ;TIME TO CHECK FOR ADDRESS
0909: D0 0D          BNE FORM7       ;NO
090B: 20 A7 FF       JSR GETNUM     ;YES
090E: A5 3F          LDA A2H
0910: F0 01          BEQ FORM6      ;HIGH ORDER BYTE ZERO
0912: E8             INX            ;NO, INCR FOR 2-BYTE
0913: 86 35          FORM6 STX L      ;STORE LENGTH
0915: A2 03          LDX #$03       ;RELOAD FORMAT INDEX
0917: 88             DEY            ;BACKUP A CHARACTER
0918: 86 3D          FORM7 STX A1H    ;SAVE INDEX
091A: CA             DEX            ;DONE WITH FORMAT CHECK?
091B: 10 C9          BPL FORM2       ;NO
091D: A5 44          LDA FMT        ;YES PUT LENGTH
091F: 0A             ASL A          ;IN LOW BITS
0920: 0A             ASL A
0921: 05 35          ORA L
0923: C9 20          CMP #$20
0925: B0 06          BCS FORM8       ;ADD $ IF NONZERO LENGTH
0927: A6 35          LDX L          ;AND DON'T ALREADY HAVE IT
0929: F0 02          BEQ FORM8
092B: 09 80          ORA #$80
092D: 85 44          FORM8 STA FMT
092F: 84 34          STY YSAV
0931: B9 00 02       LDA IN,Y       ;GET NEXT NONBLANK
0934: C9 BB          CMP #$BB       ;';' START OF COMMENT
0936: F0 04          BEQ FORM9       ;YES
0938: C9 8D          CMP #$8D       ;A CARRIAGE RETURN ?
093A: D0 80          BNE ERR4        ;NO, ERR
093C: 4C 67 08       FORM9 JMP TRYNEXT
093F:                *
093F: B9 00 02       GETNSP LDA IN,Y
0942: C8             INY
0943: C9 A0          CMP #$A0       ;GET NEXT NON BLANK CHAR
0945: F0 F8          BEQ GETNSP
0947: 60             RTS
<None>

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