

```

C9E1:A2 00      53      LDX #0      ;IORESULT='GOOD'
C9E3:AD FB 04   54      LDA MODE    ;ARE WE IN 1.0-MODE?
C9E6:29 02      55      AND #M.PAS1.0
C9E8:F0 02      56      BEQ PREADRET2 ;=>NOPE
C9EA:A2 C3      57      LDX #<CN00    ;YES, RETURN CN IN X
C9EC:           58 *
C9EC:           59 PREADRET2 EQU *
C9EC:AD 7B 06   60      LDA CHAR    ;RESTORE CHAR
C9EF:60         61      RTS
C9F0:           62 *
C9F0:           63 * PASCAL OUTPUT:
C9F0:           64 * Note: to be executed, control characters must have
C9F0:           65 * their high bits cleared. All other characters are
C9F0:           66 * displayed regardless of their high bits.
C9F0:           67 *
C9F0:           68 PWRITE EQU *
C9F0:29 7F      69      AND #$7F      ;clear high bits
C9F2:AA         70      TAX          ;save character
C9F3:20 D4 CE   71      JSR PSETUP    ;SETUP ZP STUFF, don't set ROM
C9F6:A9 08      72      LDA #M.GOXY   ;ARE WE DOING GOTOXY?
C9F8:2C FB 04   73      BIT MODE
C9FB:D0 32 CA2F 74      BNE GETX      ;=>Doing X or Y?
C9FD:8A         75      TXA          ;now check for control char
C9FE:2C 2E CA   76      BIT PRYS      ;is it control?
CA01:F0 50 CA53 77      BEQ PCTL      ;=>yes, do control
CA03:AC 7B 05   78      LDY OURCH     ;get horizontal position
CA06:24 32      79      BIT INVFLG    ;check for inverse
CA08:10 02 CA0C 80      BPL PWRI      ;inverse, go store it
CA0A:09 80      81      ORA #$80
CA0C:20 70 CE   82      JSR STORIT    ;now store it (erasing cursor)
CA0F:C8         83      INY          ;INC CH
CA10:8C 7B 05   84      STY OURCH
CA13:C4 21      85      CPY WNDWTH
CA15:90 08 CA1F 86      BCC DOBASL
CA17:A9 00      87      LDA #0        ;do carriage return
CA19:8D 7B 05   88      STA OURCH
CA1C:20 D8 CB   89      JSR X.LF      ;and linefeed
CA1F:A5 28      90      DOBASL      ;save BASL for pascal
CA21:8D 7B 07   91      STA OLDBASL
CA24:A5 29      92      LDA BASH
CA26:8D FB 07   93      STA OLDBASH
CA29:20 1F CE   94      PWRITERET JSR PASINV ;display new cursor
CA2C:A2 00      95      PRET LDX #0    ;return with no error
CA2E:60         96      PRYS RTS
CA2F:           97 *
CA2F:           98 * HANDLE GOTOXY STUFF:
CA2F:           99 *
CA2F:20 1F CE   100     GETX JSR PASINV ;turn off cursor
CA32:8A         101     TXA          ;get character
CA33:38         102     SEC
CA34:E9 20      103     SBC #32      ;MAKE BINARY
CA36:2C FB 06   104     BIT XCOORD    ;doing X?
CA39:30 30 CA6B 105     BMI PSETX    ;=>yes, set it
CA3B:           106 *

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CA3B:           107 * Set Y and do the GOTOXY
CA3B:           108 *
CA3B:8D FB 05   109     GETY STA OURCV
CA3E:85 25      110     STA CV
CA40:20 BA CA   111     JSR BASCALC ;calc base addr
CA43:AD FB 06   112     LDA XCOORD
CA46:8D 7B 05   113     STA OURCH ;set cursor horizontal
CA49:A9 F7      114     LDA #255-M.GOXY ;turn off gotoxy
CA4B:2D FB 04   115     AND MODE
CA4E:8D FB 04   116     STA MODE
CA51:D0 CC CA1F 117     BNE DOBASL ;=>DONE (ALWAYS TAKEN)
CA53:           118 *
CA53:20 1F CE   119     PCTL JSR PASINV ;turn off cursor
CA56:8A         120     TXA          ;get char
CA57:C9 1E      121     CMP #$1E      ;is it gotoXY?
CA59:F0 06 CA61 122     BEQ STARTXY ;=>yes, start it up
CA5B:20 D6 CA   123     JSR CTLCHAR ;EXECUTE IT IF POSSIBLE
CA5E:4C 1F CA   124     JMP DOBASL ;=>update BASL/H, cursor, exit
CA61:           125 *
CA61:           126 * START THE GOTOXY SEQUENCE:
CA61:           127 *
CA61:           128 STARTXY EQU *
CA61:A9 08      129     LDA #M.GOXY
CA63:0D FB 04   130     ORA MODE      ;turn on gotoxy
CA66:8D FB 04   131     STA STA
CA69:A9 FF      132     LDA #$FF      ;set XCOORD to -1
CA6B:8D FB 06   133     PSETX STA XCOORD ;set X
CA6E:4C 29 CA   134     JMP PWRITERET ;=>display cursor and exit
CA71:           135 *
CA71:           136 *
CA71:           137 *
CA71:AA         138     TAX          ;SAVE IT
CA72:A5 2A      139     LDA BAS2L    ;GET OPCODE AGAIN
CA74:A0 03      140     LDY #03
CA76:E0 8A      141     CPY #8A
CA78:F0 0B CA85 142     BEQ MNNDX3
CA7A:4A         143     LSR A
CA7B:90 08 CA85 144     BCC MNNDX3 ;FORM INDEX INTO MNEMONIC TABLE
CA7D:4A         145     LSR A
CA7E:4A         146     LSR A
CA7F:09 20      147     ORA #$20
CA81:88         148     DEY
CA82:D0 FA CA7E 149     BNE MNNDX2
CA84:C8         150     INY
CA85:88         151     DEY
CA86:D0 F2 CA7A 152     BNE MNNDX1
CA88:60         153     RTS
CA89:           154 *
CA89:           155 *
CA89:           156 *
CA89:           157 *
CA89:           158 *
CA89:           159 * Switch in slot 3, then test for a ROM card.
CA89:           160 * If none found, test for 80 column card,
CA89:           161 * else return with BNE.
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