## 80-Column Text Card: Applesoft Control Codes (11/96)

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TOPIC -------------------------------------------------------------

When you write BASIC programs while the 80-Column Text Card is active, there are
a number of functions you can use by pressing the CTRL key in conjunction with
another key. Functions activated by pressing these two-key combinations are
called control character functions. Some control character functions work when
you type them in from the keyboard as well as when used within PRINT statements
in BASIC programs.

DISCUSSION --------------------------------------------------------

Table of Control Character Codes:

Key to Notes codes:

  1 - Only available when 80-Column Text Card is active
  2 - Only works from the keyboard, not in a program
  3 - Only works in a program, doesn't work from the keyboard
  4 - Not supported under BASIC

| Control Character | ASCII Name | Apple IIe Name | ASCII Decimal Code | Notes | What is Executed |
|---------|------|------|------|-------|-------------|
| CTRL-G | BEL | bell | 7 | | Produces a 1000 Hz tone for 0.1 second |
| CTRL-H | BS | backspace | 8 | | Moves cursor position one space to the left; from left edge of window, moves to right end of line above. |
| CTRL-J | LF | line feed | 10 | | Moves cursor position down to next line in window; scrolls if needed. |
| CTRL-K | VT | clear EOS | 11 | 1 | Clears from cursor position to the end of the window. |
| CTRL-L | FF | clear | 12 | 1 | Moves cursor position to upper-left corner of window and clears window. |

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CTRL-M    CR     return       13              Moves cursor position to left
                                              end of next line in window; scrolls
                                              if needed.
CTRL-N    SO     normal       14      1,3     Sets display format normal.
CTRL-O    SI     inverse      15      1,3     Sets display format inverse.
CTRL-Q    DC1    40-column    17      1,3     Sets display to 40 columns.
CTRL-R    DC2    80-column    18      1,3     Sets display to 80 columns.
CTRL-S    DC3    stop list    19      1,2     Stops sending characters to the
                                              display until a key is pressed.
CTRL-U    NAK    quit         21      1,3     Deactivates 80-column Text Card,
                                              homes cursor, and clears screen.
CTRL-V    SYN    scroll       22      1       Scrolls the display down one line,
                                              leaving the cursor in the current
                                              position.
CTRL-W    ETB    scroll up    23      1       Scrolls the display up one line,
                                              leaving the cursor in the current
                                              position.
CTRL-Y    EM     home         25      1       Moves cursor position to upper-
                                              left corner of window (but doesn't
                                              clear).
CTRL-Z    SUB    clear line   26      1       Clears the line the cursor
                                              position is on.
CTRL-\    FS     forward      28      1       Moves cursor position one space to
                                              the right; from right edge window,
                                              moves it to left end of line below.
CTRL-]    GS     clear EOL    29      1       Clear line from cursor position to
                                              the right edge of the window.
CTRL-^    RS     gotoXY       30      1,4     Using the next two characters,
                                              minus 32, as one-byte X and Y
                                              values, moves the cursor postion to
                                              CH=X, CV=Y.
```

The Apple 80-Column Card in an Enhanced IIe has some additional features
documented in the Programmer's Guide to the Enhanced IIe.


Important Information About CTRL-U
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A "CHR$(21)" response (Control-U) to a "GET A$" input statement in a BASIC
program may disable the 80-column card on an Apple IIGS, Apple IIe, Apple IIc,
and Laser 128 (but not an Apple II Plus with Applied Engineering's Viewmaster
80).

To halt the CONTROL-U function, the CONTROL-U keystroke needs to be trapped on
input. Using the "GET A$" method:

```
  10 GET A$
  20 IF A$ = CHR$(21) THEN A$ = "" :REM traps the CONTROL-U, sets it to blank
  30 PRINT A$;
  40 GOTO 10
```

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