



# Tech Info Library

## 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.
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 position 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
```

Article Change History:

14 Nov 1996 - Reviewed for technical accuracy, revised formatting.

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