



# Tech Info Library

## Applesoft: Internals--TXTPTR routines (2 of 2)

Revised: 11/7/84  
Security: Everyone

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CHRGET 00B1

CHRGET increments TXTPTR. Use CHRGOT to get the character. TXTPTR now points at:

CHRGOT 00B7

CHRGOT loads A from TXTPTR and sets certain 6502 status flags. X and Y are not changed. On exit:

A = the character currently pointed at by TXTPTR  
Z is set if A is ":" or eol (\$3A or \$00)  
C is clear if A is an ASCII number("0" to "9").

LINGET DA0C

LINGET read a line number (integer 0 to 63999) from TXTPTR into LINNUM. LINGET assumes the 6502 registers and A have been set up by the JSR to CHRGET that fetched the first digit. LINGET normally exits through CHRGOT, which fetches the character after the last digit. When the number is greater than 63999, LINGET exits via SYNTAX ERROR. LINNUM is zero when there is no number at TXTPTR.

GTBYTC E6F5

GTBYTC causes JSR to CHRGET to gobble a character, then evaluates the formula at TXTPTR, and then it returns a single byte integer in X and FACLO. On entry TXTPTR points to the first character of the formula. GTBYTC normally exits through CHRGET. If FAC is greater than 255 or less than 0, it exits through ILLEGAL QUANTITY ERROR.

GETBYT E6F8

GETBYT evaluates the formula at TXTPTR besides returning a single byte integer in X and FACLO. On entry, TXTPTR points to the first character of the formula. GETBYT normally exits through CHRGET. When FAC is greater than

255 or less than 0, it exits through ILLEGAL QUANTITY ERROR.

PLOTFNS            F1EC

PLOTFNS gets two LORES plotting coordinates separated by a comma from TXTPTR (0-47,0-47). TXTPTR when entered, points to the first number of the formula. PLOTFNS puts the first number in FIRST and the second number in H2 and V2.

HFNS                F6B9

HGNS gets HIRES plotting coordinates (0-279,0-191) from TXTPTR. TXTPTR points to the first character of the formula for the first number upon entry. HFNS leaves the 6502 registers set up for HPOSN. When exiting:

A = vertical coordinate  
X = lsb of horizontal coordinate  
Y = msb of vertical coordinate

Apple Tech Notes

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