



Tech Info Library

Applesoft: Internals--Miscellaneous Routines

Revised: 11/7/84
Security: Everyone

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PTRGET DFE3

Read a variable name from CHRGET and find it in memory. On entry TXTPTR points to the first character of the variable name. On exit the address to the value of the variable is in VARPNT and Y,A. If PTRGET can't find a simple variable it creates one. If it can't find an array it creates one dimensioned from 0 to 10 and sets all elements equal to zero.

GETARYPT F7D9

Read a variable name from CHRGET and find it in memory. On entry TXTPTR points to the first character of the variable name. This routine leaves LOWTR pointing to the name of the variable array. If the array can't be found the result is an OUT OF DATA ERROR.

FNDLIN D61A

Searches the program for the line whose number is in LINNUM.

On exit:

C set LOWTR points to the link field of the desired line.

C clear then not found. LOWTR points to the next higher line.

DATA D995

Move TXTPTR to the end of the statement. Looks for the ":" or eol (0).

DATAN D9A3

Calculate the offset in Y from TXTPTR to the next ":" or eol (0).

REMN D9A6

Calculate the offset in Y from TXTPTR to the next eol (0).

ADDON D998

Add Y to TXTPTR.

SCRTCH D64B

The "NEW" command. Clears the program, variables, and stack.

CLEARC D66C

The "CLEAR" command. Clears the variables and stack.

STKINI D683

Clears the stack.

RESTOR D849

Sets the DATA pointer, DATPTR, to the beginning of the program.

STXTPT D697

Set TXTPTR to the beginning of the program.

BLTU D393

Block transfer makes room by moving everything forward.

On entry:

Y,A and HIGHDS = destination of high address + 1

 LOWTR = lowest address to be moved

 HIGHTR = highest address to be moved + 1

On exit:

LOWTR is unchanged

HIGHTR = LOWTR - \$100

HIGHDS = lowest address transfered - \$100

REASON D3E3

Makes sure there's enough room in memory for another variable. Checks to be sure that the address Y,A is less than FRETOP. May cause garbage collection. Causes "OUT OF MEMORY ERROR" if there's no room.

GARBAG E484

Move all currently used strings up in memory as far as possible. This maximizes the free memory area for more strings or numeric variables.

CONT D898

Moves OLDTEXT and OLDLIN into TXTPTR and CURLIN.

NEWSTT D7D2

Execute a new statement. On entry TXTPTR points to the ":" preceding the statement or the zero at the end of the previous line. Use NEWSTT to restart the program with CONT. THIS ROUTINE DOES NOT RETURN.

RUN D566

Run the program in memory. THIS ROUTINE DOES NOT RETURN.

GOTO D93E

Uses LINGET and FNDLIN to update TXTPTR. GOTO assumes that the 6502 registers and A have been set up by the CHRGET that fetched the first digit.

LET DA46

Uses CHRGET to get address of the variable, "=", evaluate the formula, and store it. On entry TXTPTR points to the first character of the variable name.

Apple Tech Notes

Tech Info Library Article Number:80