

## LONG VECTOR TEST PROGRAM

The LONG VECTOR TEST PROGRAM is designed to display long vectors in a pattern around the screen, to change the scale of the vectors, and to isolate a single vector if desired.

The number of vectors displayed is determined from the data switch setting with the setting defining the interval between the vectors at the edge of the screen. For example, a data switch setting of 400g will produce 8 vectors that emanate from close to the center of the screen and terminate at the edge of the screen 400g units apart. Thus, the smaller the value set in the data switches, the larger the number of vectors displayed on the screen. The largest data switch setting allowed is 400g with the smallest setting being determined by the amount of core that is available for a display buffer; on an 8k machine the smallest setting is 4. Since the program determines the size of the machine that is being used and calculates the core necessary to display the number of vectors as input from the data switches, there is no need to be concerned about entering an illegal setting of the data switches in a 4k machine.

If bit one of the data switch is set, the scale is changed according to bits 14 and 15. Until bit one is reset, no change will take place with the number of vectors on the screen. Once bit one is reset, the last scale setting is used when new vectors are displayed.

To isolate single vectors the program is stopped by putting bit 0 of the data switches down and restarting at 20. The data switches are then used to input the number of the vector that is to be displayed starting with number 1 as the first vector. A data switch setting of zero is ignored along with a number that is greater than the number of generated vectors. The program is stopped by putting bit 0 of the data switches down.