B/GRAPH™

ADDENDUM

REVISIONS in 1.1.1

MAY, 1986

BATTERIES INCLUDED
"The Energized Software Company!"

GENERAL:

- **CONTROL-1** has been disabled.

LABELLING MODULE:

- When you are typing a label you may move the label around with a joystick. As you move the joystick, the speed of text movement will increase. To get back to the slower speed simply allow the joystick to come to rest in the centre position. If you press the fire button, the label will be erased. As the label is moved, the background under the label will continually be restored. The label only becomes permanent when you press the RETURN key, the ESC key, or one of the rapid cursor movement keys.

- When in the movement mode (no border lit up) you have three additional options.

1. If you press **CONTROL-B** you will go into the box creation mode — the position of the upper left corner of the cursor becomes one of the corners of the box. The border will change colors and you can then move the cursor to determine the opposite diagonal corner of the box.
2. Pressing the fire button tells the computer to draw the box.
3. Pressing the ESC key aborts the box draw, and the dot at the starting corner is removed.

CONTROL-L - works much the same as Control-B except that you are determining the start and end location of a line segment.

CONTROL-D - enters the drawing mode. Every movement you make with the joystick will be followed by a drawn line. Pressing either the fire button or ESC key will exit the mode, but what you have drawn will remain in place.

CONTROL-R - will now invert the picture allowing a printout of white on black rather than black on white. This feature allows you to draw or put boxes in an area which is solidly filled. To do this, press CONTROL-R again and you will have a light box on a solid fill, for example.

- In slide shows you can now directly reference slides 21 to 30 by holding down the OPTION key and typing a number from 1 to 0 on the top row of your keyboard. Holding down the SELECT key while typing either of the same set of numbers will display slides 31 to 40.

FILE MANIPULATION:

Three new features have been added to the sub-menu arrived at by pressing "Perform Algebraic Ops." Two of these are Forward and Backward differencing of Factor 1.

1. Forward differencing means that each value is replaced by the difference between it and the previous item. This causes the first element to become "NA".
2. Backward differencing is precisely the opposite. You subtract the next element from the current one. In this case there is a value for the first element but not the last.
3. On the "Perform Algebraic Ops" sub menu, "Noise Reduction By Fourier" has been added. This option smooths the data in Factor 1 by using Fourier transforms. You are asked for the degree of smoothing desired: this must be an integer between two and one half the number of points, less one. The higher the number the greater the emphasis on fit and not on smoothing. Note that this is a slow process, so turn off the screen for more rapid calculation. The higher the smoothing coefficient the longer the job will take. There may be no missing data points in Factor 1. The data in factors above 1 is wiped out. Factor 2 is the smoothed area.

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**as compiled from national retail store sales reports for week ending January 5, 1985*