

## INITIAL PROGRAM LOADER

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The Initial Program Loader provides the system with the ability to load programs from standard cassette tape, flexible disk, cartridge disk, or fixed disk.

The IPL facility may be initiated either from the computer full panel or from the system operator's panel (SOP).

When the key switch is not in the LOCK position, operation of the IPL switch or button causes the following events to occur:-

- \* The contents of the IPL ROM are copied into the first 64 words of main memory.
- \* The CPU is put into 'Inhibit Interrupt' mode.
- \* The P-register is zeroised and the CPU is started in 'Run' mode in order to execute the program just loaded from the ROM. In other words, 'bootstrap'.

The bootstrap program which is executed will identify the SOP switch which has been depressed, and the SOP switch number will be used to select a device. Possible devices are cassette 1, cassette 2, fixed or exchangeable disk, flexible disk 0, or flexible disk 1.

A loader program is copied from the selected device into main memory, starting at address X'0080'.

After completion of this copy, control is given to the loader program at address X'0084'.

This loader program then moves itself to address X'FFFE' and lower, and proceeds to load the monitor and applications.

See figure 5.1.

INITIAL PROGRAM LOADER

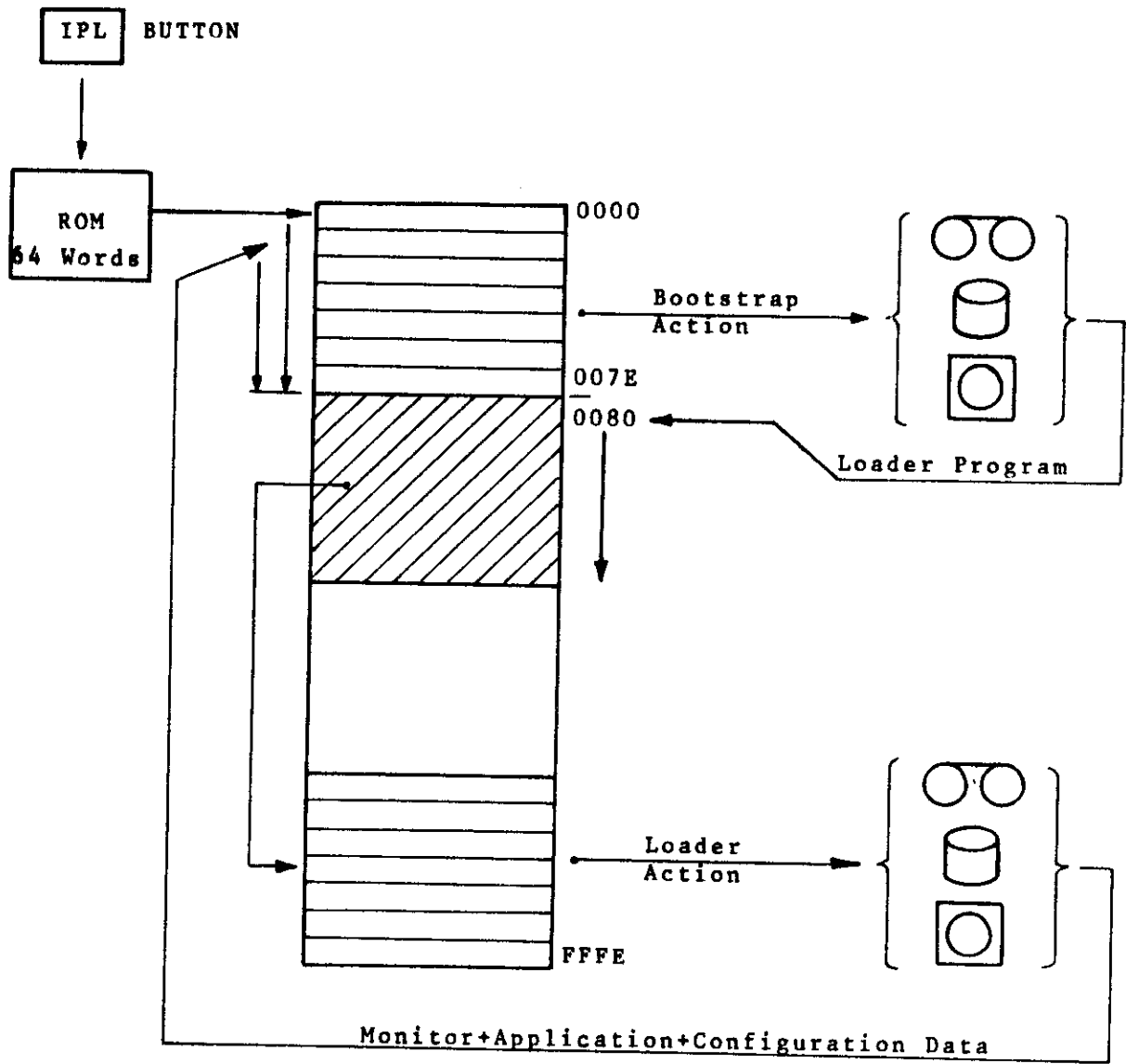


Figure 5.1. IPL, Bootstrap, Loader.