

Summary of Apple II Monitor Commands

Examining Memory.

- **{adrs}**
Examines the value contained in one location.
- **{adrs1}.{adrs2}**
Displays the values contained in all locations between {adrs1} and {adrs2}.
- **[RETURN]**
Displays the values in up to eight locations following the last opened location.

Changing the Contents of Memory.

- **{adrs}:{val} {val} ...**
Stores the values in consecutive memory locations starting at {adrs}.
- **:{val} {val}**
Stores values in memory starting at the next changeable location.

Moving and Comparing.

- **{dest}<{start}.{end}M**
Copies the values in the range {start}.{end} into the range beginning at {dest}. (M=move)
- **{dest}<{start}.{end}V**
Compares the values in the range {start}.{end} to those in the range beginning at {dest}. (V=verify)

Saving and Loading via Cassette Tape.

- **{start}.{end}W**
Writes the values in the memory range {start}.{end} onto tape, preceded by a ten-second leader.
- **{start}.{end}R**
Reads values from tape, storing them in memory beginning at {start} and stopping at {end}. Prints "ERR" if an error occurs.

Running and Listing Programs.

- **{adrs}G**

Transfers control to the machine language program beginning at {adr}. (G=go)

- **{adr}L**

Disassembles and displays 20 instructions, starting at {adr}. Subsequent L's will display 20 more instructions each. (L=list)

Miscellaneous.

- **{adr}S**

Disassemble, display, and execute the instruction at {adr}, and display the contents of the 6502's internal registers. Subsequent S's will display and execute successive instructions. (S=step)

- **{adr}T**

Step infinitely. The TRACE command stops only when it executes a BRK instruction or when you press RESET. (T=trace)

- **Control-E**

Displays the contents of the 6502's registers. (E=examine)

- **I**

Set Inverse display mode.

- **N**

Set Normal display mode. Also useful as a delimiter for putting multiple commands on one line.

- **Control-B**

Enter the language currently installed in the Apple's ROM (cold start at \$E000).

- **Control-C**

Reenter the language currently installed in the Apple's ROM (warm start at \$E003).

- **{val1}+{val2}**

Add the two values and print the result.

- **{val2}-{val1}**

Subtract the second value from the first and print the result.

- **{slot} Control-P**

Divert output to the device whose interface card is in slot number {slot}. If {slot}=0, then route output to the Apple's screen.

- **{slot} Control-K**

Accept input from the device whose interface card is in slot number {slot}. If {slot}=0, then accept input from the Apple's keyboard.

- **Control-Y**

Jump to the machine language subroutine at location \$03F8. This lets you add your own commands to the Monitor.

The Mini-Assembler.

- **F666G**

Invoke the Mini-Assembler.

- **\${command}**
Execute a Monitor command from the Mini-Assembler.
- **FF69G**
Leave the Mini-Assembler.