



# Tech Info Library

## Apple IIc: Setting serial port 2's firmware from BASIC (2 of 2)

Revised: 3/10/86  
Security: Everyone

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--Modem Port Command Codes:

### 1. Line width

- a. Code: A number from 1 through 255 followed by a carriage return.
- b. Code: A number from 1 through 255 followed by the letter N. This form of the command code also means that output will not be echoed to the screen.
- c. To turn off automatic generation of carriage return, either:
  1. use the Z command,
  2. use the System Utilities Disk.

### 2. Baud rate

Code	Rate
1B	50
2B	75
3B	110 (109.92)
4B	135 (134.58)
5B	150
6B	300
7B	600
8B	1200
9B	1800
10B	2400
11B	3600
12B	4800
13B	7200
14B	9600
15B	19200

### 3. Data format

Code	Data bits	Stop bits
0D	8	1

1D	7	1
2D	6	1
3D	5	1
4D	8	2
5D	7	2
6D	6	2
7D	5	2

#### 4. Echo output on the screen

Code	Effect
I	Output is echoed on the screen.

#### 5. Line feed after carriage return.

Code	Effect
K	A line feed is not sent after a carriage return.
L	A line feed is sent after a carriage return.

#### 6. Parity

Code	Parity
0P	None
1P	Odd
2P	None
3P	Even
4P	None
5P	MARK (1)
6P	None
7P	SPACE (0)

#### 7. Terminal Mode

Code	Effect
T	Enter Terminal Mode. Use this command after IN#2 only. If you follow this command by PR#2, the Apple IIc will echo input to output. If the other device does so too, the first character entered will loop endlessly, locking up the system. Use CTRL-RESET to get out.
Q	Quit terminal mode.

#### 8. Reset

Code	Effect
R	Reset port 2 and exit from serial port 2 firmware.

#### 9. Break

Code	Effect
S	Send a 233 millisecond BREAK character.

10. Ignore

Code	Effect
Z	Zap (ignore) further command characters until CTRL-Reset. NOTE: Do not format output or insert carriage returns into output stream.

11. Terminal mode command codes from remote devices

Code	Effect
CTRL-T	If IN#2 is already in effect, this command puts the Apple IIc in terminal mode, just as does the local command T.
CTRL-R	This command undoes the remote terminal mode command. If IN#2 and PR#2 are in effect, the remote keyboard and display become the input and output devices of the local Apple IIc.

WARNING: Apple IIc firmware DOES NOT allow you to use control characters B, C, H, I, J, L, M, or Y: doing so may cause unpredictable effects.

Apple Technical Communications

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