

Apple III: Emulation Mode--Controlling Bit 8 of the RS-232 Port

Revised: 10/29/84 Security: Everyone

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This driver allows the user to control bit 8 of the built-in RS-232 port in Emulation Mode. Bit 8 is used by some printers to select expanded or normal print mode or to enable alternate or graphics character sets. DOS 3.2 or DOS 3.3 is required to use this routine. Both the Serial Card Emulation and the Communications Card Emulation are supported.

SOFTWARE ENTRY

Boot a DOS diskette and enter the monitor with CALL -155 and type

3B0:A9 07 :20 95 FE :A9 80 :20 ED FD :A9 C5 :85 36 :A9 03 :85 37 :4C EA 03 :29 7F :0D CD 03 :4C 07 C7 :80

To check your typing, type

3B0L

and compare your listing to the one below.

03B0-	A9	07		LD.	A	#\$07	
03B2-	20	95	FE	JS	R	\$FE95	
03B5-	A9	80		LD.	A	#\$80	
03B7-	20	ED	FD	JS	R	\$FDED	
03BA-	A9	C5		LD.	A	#\$C5	
03BC-	85	36		ST.	A	\$36	

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03BE-	A9	03		LDA	#\$03
03C0-	85	37		STA	\$37
03C2-	4C	ΕA	03	JMP	\$03EA
03C5-	29	7F		AND	#\$7F
03C7-	0D	CD	03	ORA	\$03CD
03CA-	4C	07	C7	JMP	\$C707
03CD-	80			???	

Now return to Basic with 3D0G

SAVING THE PROGRAM TO DISK:

Save the driver to disk by typing

BSAVE SERIAL DRIVER, A\$3B0, L\$1E

USING THE PRINTER:

The driver should be in memory before you want to use the printer. You must load the driver and initialize the interface.

From command mode type

BLOAD SERIAL DRIVER CALL 944

This may be done from a program by entering

100 PRINT D\$;"BLOAD SERIAL DRIVER" : CALL 944

assuming that D\$ contains a CTRL-D.

If you want to switch back to the video monitor for output type

PR#0

or in a program enter

200 PRINT D\$;"PR#0"

Then to reconnect the printer, all that is required is

CALL 954

or from a program

300 CALL 954

SETTING THE PRINT MODES:

To set normal print mode POKE 973,0 To set expanded print mode POKE 973,128 Apple Tech Notes

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