

:ASM

0900 *APPLE IIE ROM PATCH FOR BREAKING INTO DEBUGGER
0950 *PART 2: THIS ROUTINE REPLACES THE SELF-TEST
0960 *ROM CODE AND STARTS AT \$C600.
0961 *WHEN INVOKED THE USER CAN
0962 *PRESS EITHER ESC OR SPC.
0963 *ESC-GO DIRECTLY TO MONITOR
0964 *SPC-COPY MEMORY LOCATIONS \$0000-\$08FF
0965 * TO \$2000-\$2FFF THEN JUMP TO MONITOR
0966 * ANY OTHER KEY - PROCEED NORMALLY
0970 *CALLED FROM \$FECD WHEN RESET IS PRESSED
0980 *THANKS TO THE COMPUTIST MAGAZINE (ISSUE #6)
0981 *AND KRAKOWITZ TEXT FILES FOR THE INSPIRATION

003C-		0985	A1L	.EQ \$003C	LSB ADDRESS
003D-		0986	A1H	.EQ \$003D	MSB ADDRESS
003E-		0987	A2L	.EQ \$003E	LSB OF ADDRESS 2
003F-		0988	A2H	.EQ \$003F	MSB OF ADDRESS 2
0042-		0989	A4L	.EQ \$0042	LSB OF ADDRESS 4
0043-		0990	A4H	.EQ \$0043	MSB OF ADDRESS 4
FE2C-		0991	MONMOVE	.EQ \$FE2C	MONITOR MOVE ROUTINE
FC58-		0992	HME	.EQ \$FC58	CLEARs TEXT SCREEN
FB2F-		0993	TXT	.EQ \$FB2F	SELECTS TEXT SCREEN
FECD-		1001	MONEXIT	.EQ \$FECD	PART 3 AND TAPE WRITE SECTION
C000-		1002	KEYBD	.EQ \$C000	KEYBOARD
FF03-		1003	NORMAL	.EQ \$FF03	EXIT LOCATION IN PART 1
		1005		.OR \$C600	LOCATE IN SELF-TEST SECTION OF MEM
		1007		.TA \$800	
C600- 48		1008	START	PHA	SAVE ACCUMULATOR
C601- AD 00 C0		1010	LOOP	LDA KEYBD	LOOK AT KEYBOARD
C604- 10 FB		1020		BPL LOOP	KEEP READING UNTIL A KEY PRESSED
C606- C9 A0		1025		CMP #\$A0	WAS SPC PRESSED?
C608- F0 08		1030		BEQ CPY	YES, START MEM COPY
C60A- C9 9B		1035		CMP #\$9B	WAS ESC PRESSED?
C60C- F0 3F		1037		BEQ END	YES, JUMP STRAIGHT TO MONITOR
C60E- 68		1038		PLA	RESTORE ACCUMULATOR
C60F- 4C 03 FF		1040		JMP NORMAL	BACK TO PART 1 FOR PASSTHROUGH
C612- 68		1041	CPY	PLA	RESTORE ACCUMULATOR
C613- 8D 02 29		1042		STA \$2902	SAVE REGISTERS
C616- 8E 03 29		1043		STX \$2903	
C619- 8C 04 29		1044		STY \$2904	
C61C- BA		1050		TSX	
C61D- 8E 01 29		1060		STX \$2901	
C620- A0 00		1062		LDY #0	START WITH BYTE 0
C622- B9 00 00		1064	SAVE1	LDA 0,Y	GET A ZERO PAGE BYTE
C625- 99 00 20		1066		STA \$2000,Y	SAVE IT
C628- B9 00 01		1090		LDA \$100,Y	GET A STACK BYTE
C62B- 99 00 21		1100		STA \$2100,Y	SAVE IT
C62E- C8		1110		INY	
C62F- D0 F1		1120		BNE SAVE1	IF NOT DONE, MOVE ANOTHER BYTE
C631- 84 3C		1125		STY A1L	MSB FROM ADDRESS IS 0
C633- 84 42		1130		STY A4L	MSB OF THE TO ADDRESS IS 0
C635- 84 3E		1135		STY A2L	MOVE CODE THROUGH \$900
C637- A9 09		1140		LDA #9	
C639- 85 3F		1145		STA A2H	
C63B- A9 02		1150		LDA #2	MOVE CODE STARTING AT \$200
C63D- 85 3D		1155		STA A1H	
C63F- A9 22		1160		LDA #\$22	MOVE CODE INTO PAGE 22
C641- 85 43		1165		STA A4H	
C643- 20 2C FE		1170		JSR MONMOVE	
C646- 20 2F FB		1175		JSR TXT	
C649- 20 58 FC		1180		JSR HME	
C64C- 48		1190		PHA	
C64D- 68		1210	END	PLA	RESTORE ACCUMULATOR
C64E- 4C CD FE		1220		JMP MONEXIT	JUMP TO PART 3 AND EXIT TO MON

SYMBOL TABLE

003D- A1H
003C- A1L
003F- A2H
003E- A2L
0043- A4H
0042- A4L
C612- CPY
C64D- END
FC58- HME
C000- KEYBD
C601- LOOP
FECD- MONEXIT
FE2C- MONMOVE
FF03- NORMAL
C622- SAVE1
C600- START
FB2F- TXT

0000 ERRORS IN ASSEMBLY

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