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1      * SDP INTEPRETER
2      * THIS PROGRAM IS RELOCATABLE
3
4          ORG      $15AC          ; JUST BELOW MAP.INTRP
5
6      * ZERO PAGE USAGE *****
7
8      ART      EQU      $06          ; ARTWORK POINTER IN $06,$07
9      X1      EQU      $EB          ; X1 COORD AS WORD
10     X2      EQU      $ED          ; X2 COORD AS WORD
11     Y1      EQU      $EF
12     Y2      EQU      $FA
13     COLOR   EQU      $FB
14
15     * ROM ROUTINES *****
16
17     SETCOLOR EQU      $F6F0          ; ARG=X
18     BEGLINE  EQU      $F411          ; X,Y=HOR A=VER
19     ENDLINE  EQU      $F53A          ; A,X=HOR Y=VER
20     COUT     EQU      $FDED
21     CLEAR    EQU      $F3E2
22     SETSHP   EQU      $F730          ; IS IT?
23     DRWSHP   EQU      $F601          ; IS IT?
24
25     * PROGRAM *****
26     * IN: ART, POINTER TO SDP ARTWORK FILE
27
15AC: 20 E2 F3 28     CPAINT    JSR      CLEAR
15AF: A0 00 29     PAINT      LDY      #$00
15B1: B1 06 30          LDA      (ART),Y
15B3: 48 31          PHA
15B4: C8 32     :LDLOOP  INY
15B5: B1 06 33          LDA      (ART),Y
15B7: 99 EA 00 34          STA      X1-1,Y
15BA: C0 05 35          CPY      #$05
15BC: 30 F6 36          BMI      :LDLOOP
15BE: C8 37          INY
15BF: B1 06 38          LDA      (ART),Y
15C1: 85 FA 39          STA      Y2
15C3: C8 40          INY
15C4: B1 06 41          LDA      (ART),Y
15C6: 85 FB 42          STA      COLOR
15C8: 68 43          PLA
15C9: C9 00 44          CMP      #$00
15CB: F0 16 45          BEQ      :SHAPE
15CD: C9 01 46          CMP      #$01
15CF: F0 31 47          BEQ      :LINE
15D1: C9 02 48          CMP      #$02
15D3: F0 49 49          BEQ      :FILL
15D5: 60 50          RTS
15D6: 65 06 51     :NEXT    ADC      ART          ; A MUST HAVE STRIDE
15D8: 85 06 52          STA      ART
15DA: A9 00 53          LDA      #$00
15DC: 65 07 54          ADC      ART+1
15DE: 85 07 55          STA      ART+1
15E0: 18 56          CLC
15E1: 90 CC 57          BCC      PAINT
15E3: A6 EB 58     :SHAPE  LDX      X1          ; COLOR
15E5: 20 F0 F6 59          JSR      SETCOLOR

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15E8:	A6	ED	60		LDX	X2	
15EA:	A4	EE	61		LDY	X2+1	
15EC:	A5	EF	62		LDA	Y1	
15EE:	20	11	F4	63	JSR	BEGLINE	
15F1:	A6	EC	64		LDX	X1+1	; SHAPE INDEX
15F3:	20	30	F7	65	JSR	SETSHP	
15F6:	A6	1A	66		LDX	\$1A	
15F8:	A4	1B	67		LDY	\$1B	
15FA:	20	01	F6	68	JSR	DRWSHP	
15FD:	A9	06	69		LDA	#\$06	
15FF:	18		70		CLC		
1600:	90	D4	71		BCC	:NEXT	
1602:	A6	FB	72	:LINE	LDX	COLOR	
1604:	20	F0	F6	73	JSR	SETCOLOR	
1607:	A6	EB	74		LDX	X1	
1609:	A4	EC	75		LDY	X1+1	
160B:	A5	EF	76		LDA	Y1	
160D:	20	11	F4	77	JSR	BEGLINE	
1610:	A5	ED	78		LDA	X2	
1612:	A6	EE	79		LDX	X2+1	
1614:	A4	FA	80		LDY	Y2	
1616:	20	3A	F5	81	JSR	ENDLINE	
1619:	A9	08	82	:FINLN	LDA	#\$08	
161B:	18		83		CLC		
161C:	90	B8	84		BCC	:NEXT	
161E:	A6	FB	85	:FILL	LDX	COLOR	
1620:	20	F0	F6	86	JSR	SETCOLOR	
1623:	C6	FA	87	:FLOOP	DEC	Y2	
1625:	F0	F2	88		BEQ	:FINLN	
1627:	A6	EB	89		LDX	X1	
1629:	A4	EC	90		LDY	X1+1	
162B:	A5	EF	91		LDA	Y1	
162D:	20	11	F4	92	JSR	BEGLINE	
1630:	A5	ED	93		LDA	X2	
1632:	A6	EE	94		LDX	X2+1	
1634:	A4	EF	95		LDY	Y1	
1636:	20	3A	F5	96	JSR	ENDLINE	
1639:	E6	EF	97		INC	Y1	
163B:	18		98		CLC		
163C:	90	E5	99		BCC	:FLOOP	

--End assembly, 146 bytes, Errors: 0

Symbol table - alphabetical order:

ART	=\$06	BEGLINE	=\$F411	CLEAR	=\$F3E2	COLOR	=\$FB
? COUT	=\$FDED	? CPAINT	=\$15AC	DRWSHP	=\$F601	ENDLINE	=\$F53A
PAINT	=\$15AF	SETCOLOR	=\$F6F0	SETSHP	=\$F730	X1	=\$EB
X2	=\$ED	Y1	=\$EF	Y2	=\$FA		

Symbol table - numerical order:

ART	=\$06	X1	=\$EB	X2	=\$ED	Y1	=\$EF
Y2	=\$FA	COLOR	=\$FB	? CPAINT	=\$15AC	PAINT	=\$15AF

CLEAR =\$F3E2
SETCOLOR=\$F6F0

BEGLINE =\$F411
SETSHP =\$F730

ENDLINE =\$F53A
COUT =\$FDED

DRWSHP =\$F601

?

