

0 ; FINE SCROLLING, LISTING 1

05 ;FINESCR.M65

06 .OPT OBJ

07 .OPT NO LIST

10 ; BY MARK ANDREWS

20 ; ANTIC PUBLISHING

30 ;

40 \*= \$3000

45 JMP INIT

50 ;

60 SDMCTL = 559

70 ;

80 SDLSTL = 560

90 SDLSTH = 561

0100 ;

0110 COLOR0 = 708

0120 COLOR1 = 709

0130 COLOR2 = 710

0140 COLOR3 = 711

0150 COLOR4 = 712

0160 HSCROL = 542

0162 VVBLKI = 546

0164 SYSVBV = 58463

0166 SETVBI = 58460

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0168 XITVBL = 58466
0170 TCKPTR = $2000
0180 FSCPTR = TCKPTR+1
0190 .OPT OBJ
0192 .OPT NO LIST
0200 ;
0210 ; DISPLAY LIST DATA
0220 ;
0230 ST T
0240 .SBYTE "
"
0250 LINE1 .SBYTE " ANTIC PRESENTS
"
0260 LINE2 .SBYTE " fine scrolling
"
0270 LINE3 .SBYTE " On Yo
ur"
0280 .SBYTE " Atari "
0290 LINE4 .SBYTE " BY (STEVE MORR
OW) "
0300 ;
0310 ; DISPLAY LIST
0320 ;
0330 HLST NOP ;('HELLO' LIST)
0340 .BYTE 112,112,112
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```
0350 .BYTE 112,112,112,112,112
0360 .BYTE 70
0370 .WORD LINE1
0380 .BYTE 112,112,112,112,87
0390 SCROLN NOP    ;(THIS IS THE LIN
E WE'LL SCROLL)
0400 .WORD 0
0410 .BYTE 112,66
0420 .WORD LINE3
0430 .BYTE 112,112,112,112,70
0440 .WORD LINE4
0450 .BYTE 112,112,112,112,112
0460 .BYTE 65
0470 .WORD HLST
0480 ;
0490 ; RUN PROGRAM
0500 ;
0510 INIT NOP    ;PREPARE TO RUN P
ROGRAM
0520 LDA COLOR3 ;SET COLOR REGIST
ER
0530 STA COLOR1
0540 LDA COLOR4
0550 STA COLOR2
0560 ;
```

```
0570 LDA #0 ;TELL ANTIC WHERE
DISPLAY LIST IS
0580 STA 559
0590 LDA #HLST&255
0600 STA 560
0610 LDA #HLST/256
0620 STA 561
0630 LDA #34
0640 STA 559
0645 JSR TCKSET ;INITIALIZE TICKE
R ADDRESS
0650 ;
0660 ; FINE-SCROLLING ROUTINE
0680 LDA #42
0690 STA TCKPTR
0700 LDA #8
0710 STA FSCPTR ;NUMBER OF COLOR
CLOCKS TO SCROLL
0720 ;
0730 ; ENABLE INTERRUPT
0740 ;
0750 LDY #TCKINT&255
0760 LDX #TCKINT/256
0770 LDA #6
0780 JSR 58460
```

```
0790 ;
0800 ; TICKER INTERRUPT
0810 ;
0820 TCKINT
0830 LDA #SCROLL&255
0840 STA 546
0850 LDA #SCROLL/256
0860 STA 547
0870 ;
0880 INFIN
0890 JMP INFIN ;INFINITE LOOP
0900 ;
0910 SCROLL
0920 LDX FSCPTR ;8 TO START
0925 DEY
0930 DEX
0940 STX 54276
0950 BNE CONT
0960 LDX #8
0970 CONT NOP
0980 STX FSCPTR
0990 CPX #7
1000 BEQ COARSE
1010 JMP 58463
1020 COARSE
```

```
1030 LDY TCKPTR ;NUMBER OF CHARAC
TERS TO SCROLL
1040 DEY
1050 BNE SCORSE ;LOOP BACK TILL E
NTIRE LINE IS SCROLLED
1060 LDY #42
1070 JSR TCKSET ;RESET TICKER LIN
E
1080 SCORSE NOP ;DO COARSE SCROLL

1090 STY TCKPTR
1100 INC SCROLN ;LOW BYTE OF ADDR
ESS
1110 BNE RETURN
1120 INC SCROLN+1 ;HIGH BYTE OF AD
DRESS
1130 RETURN
1140 JMP 58463
1150 ;
1160 TCKSET
1170 LDA #LINE2&255
1180 STA SCROLN
1190 LDA #LINE2/256
1200 STA SCROLN+1
1210 ENDIT
```

1220 RTS

1280 \*= \$02E0 ;736

1290 .WORD INIT