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641
642          LIST S,X,M,T
643 ; *****
644 ; * SKETCH *
645 ; *****
646 ;
647 ; THE OFFICIAL NAME OF THIS
648 ; PROGRAM IS SCRIBBLING
649 ;
650 ; SKETCH EQUATES
651 ; SKETCH PACKET DISPLACEMENTS:
>001E      652 SCPSIZ EQU 30          ; SIZE OF SKETCH PACKET
>0000      653 SCSAVA EQU 0          ; SAVE AREA START
>001A      654 SCXC EQU 26          ; X COORDINATE
>001B      655 SCYC EQU 27          ; Y COORDINATE
>001C      656 SCSADL EQU 28        ; SAVE ADDRESS LO AND HI
>001D      657 SCSADH EQU 29
658 ; OTHER GOODIES
>0004      659 MOVTR EQU 4          ; MOVE RATE
>0014      660 KSCSTEP EQU 20       ; COLOR STEPPING TIME
661          ORG 0E19H              ; ** START
0E19      662 BEGIN: SYSSUK GETPAR
0E19 FF    662 + RST 56
0E1A 4D    662 + DEFB GETPAR-1
662 + IF GETPAR.EQ. INTPC
662 + ENDIF
0E1B 2802 663 DEFW NOPLA
0E1D 01    664 DEFB 1
0E1E F34F 665 DEFW NUMPLY
0E20      666 SCSADL
0E20 31E84E 667 LD SP, SCSADL
0E23      668 SYSTEM INTFC
0E23 FF    668 + RST 56
0E24 00    668 + DEFB INTPC
668 + IF INTPC.EQ. INTPC
>0001      668 +INTFC DEFL 1
668 + ENDIF
0E25      669 DO FILL          ; CLEAR SCREEN
0E25 1B    669 + DEFB FILL+1
0E26 0040 670 DEFW NORMEM
0E28 600E 671 DEFW 92*BYTEPL
0E2A 00    672 DEFB 0
0E2B      673 DO FILL
0E2B 1B    673 + DEFB FILL+1
0E2C F04E 674 DEFW P1SCP
0E2E 7800 675 DEFW SCPSIZ*4
0E30 00    676 DEFB 0
0E31      677 DO SETOUT
0E31 17    677 + DEFB SETOUT+1
0E32 B8    678 DEFB 184
0E33 28    679 DEFB 40
0E34 08    680 DEFB 3
0E35      681 DO MOVE
0E35 5F    681 + DEFB MOVE+1
0E36 E84E 682 DEFW COLORS
0E38 0800 683 DEFW 8
0E3A 0C10 684 DEFW INICOL

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0E3C		685		DO	COLSET	
0E3C	19	685	+	DEFB	COLSET+1	
0E3D	E84E	686		DEFW	COLORS	
0E3F		687		DO	SETW	
0E3F	7D	687	+	DEFB	SETW+1	
0E40	46	688		DEFB	70	
0E41	24	689		DEFB	36	
0E42	0A4F	690		DEFW	P1SCP+SCXC	
0E44		691		DO	SETW	
0E44	7D	691	+	DEFB	SETW+1	
0E45	53	692		DEFB	83	
0E46	24	693		DEFB	36	
0E47	284F	694		DEFW	P2SCP+SCXC	
0E49		695		DO	SETW	
0E49	7D	695	+	DEFB	SETW+1	
0E4A	46	696		DEFB	70	
0E4B	30	697		DEFB	48	
0E4C	464F	698		DEFW	P3SCP+SCXC	
0E4E		699		DO	SETW	
0E4E	7D	699	+	DEFB	SETW+1	
0E4F	53	700		DEFB	83	
0E50	30	701		DEFB	48	
0E51	644F	702		DEFW	P4SCP+SCXC	
0E53		703		DO	SETB	
0E53	7B	703	+	DEFB	SETB+1	
0E54	04	704		DEFB	MOVTMP	
0E55	D54F	705		DEFW	CTO	
0E57		706		DONT	XINTC	
0E57	02	706	+	DEFB	XINTC	
0E58	21580E	707	MAIN	LD	HL, MAINP	
0E5B	E5	708		PUSH	HL	
0E5C		709		SYSSUK	SENTRY	
0E5C	FF	709	+	RST	56	
0E5D	43	709	+	DEFB	SENTRY	
		709	+	IF	SENTRY EQ. INTPC	
		709	+	ENDIF		
0E5E	650E	710		DEFW	KEYMES	
0E60		711		SYSSUK	DOIT	
0E60	FF	711	+	RST	56	
0E61	45	711	+	DEFB	DOIT+1	
		711	+	IF	DOIT EQ. INTPC	
		711	+	ENDIF		
0E62	A10E	712		DEFW	SCDOT	
0E64	C9	713		RET		
0E65	2F	714	KEYM	DEFB	2FH	
0E66	0F	715		DEFB	0FH	
0E67	0F	716		DEFB	0FH	
0E68	0F	717		DEFB	0FH	
		718			; KEYBOARD HANDLER	
0E69	05	719	KEYBO:	DEC	B	
0E6A	0E03	720		LD	C, 3	
0E6C	78	721		LD	A, B	
0E6D	FE14	722		CP	20	; CLEAR ENTRY DOWN?
0E6F	28AF	723		JR	Z, SCCLR-*	; JUMP TO CLEAR IF SO
0E71	0F	724		RRCA		
0E72	0F	725		RRCA		
0E73	A1	726		AND	C	

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0E74		727		SYSSUK INDEXB	
0E74	FF	727	+	RST 56	
0E75	5D	727	+	DEFB INDEXB+1	
		727	+	IF INDEXB. EQ. INTPC	
		727	+	ENDIF	
0E76	290F	728		DEFW CDELTB	
0E78	EB	729		EX DE, HL	
0E79	78	730		LD A, B	
0E7A	A1	731		AND C	
0E7B	67	732		LD H, A	
0E7C	79	733		LD A, C	
0E7D	94	734		SUB H	
0E7E		735		SYSSUK INDEXB	; POINT AT COLOR
0E7E	FF	735	+	RST 56	
0E7F	5D	735	+	DEFB INDEXB+1	
		735	+	IF INDEXB. EQ. INTPC	
		735	+	ENDIF	
0E80	E84E	736		DEFW COLORS	
0E82	1A	737		LD A, (DE)	
0E83	86	738		ADD A, (HL)	; ADD DELTA FACTOR
0E84	CB58	739		BIT 3, B	; WAS KEY FOR INTENSITY?
0E86	2804	740		JR Z, KEYB -*	
0E88	AE	741		XOR (HL)	
0E89	E607	742		AND 7	
0E8B	AE	743		XOR (HL)	
0E8C	77	744	KEYB1	LD (HL), A	
0E8D	23	745		INC HL	; CHANGE COLOR ON OTHER SIDE
0E8E	23	746		INC HL	
0E8F	23	747		INC HL	
0E90	23	748		INC HL	
0E91	77	749		LD (HL), A	
0E92		750		SYSSUK COLSET	
0E92	FF	750	+	RST 56	
0E93	19	750	+	DEFB COLSET+1	
		750	+	IF COLSET. EQ. INTPC	
		750	+	ENDIF	
0E94	E84E	751		DEFW COLORS	
0E96	3E14	752		LD A, KSCTR	; SET KEYSEX CLEAR TIMER
0E98	32D64F	753		LD (CT1), A	
0E9B	C9	754		RET	
		755		; ROUTINE TO CLEAR KEYSEX	
0E9C	AF	756	KLRKSX:	XOR A	
0E9D	32E34F	757		LD (KEYSEX), A	
0EA0	C9	758		RET	
0EA1		759	SCDCT1:	JMP SCT0, DOWRTS	
0EA1	01	759	+	DEFB SCT0	
0EA2	D30F	759	+	DEFW DOWRTS	
		759	+	IF 0	
		759	+	ENDIF	
0EA4		760		JMP SCT1, KLRKSX	
0EA4	02	760	+	DEFB SCT1	
0EA5	9COE	760	+	DEFW KLRKSX	
		760	+	IF 0	
		760	+	ENDIF	
0EA7		761		JMP SKYD, KEYBO	
0EA7	13	761	+	DEFB SKYD	
0EA8	690E	761	+	DEFW KEYBO	

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761 + IF 0
761 + ENDIF
762 ; ITERATE THROUGH ACTIVE PLAYERS SUBROUTINE
OEAA DD21F04E 763 ITER4: LD IX, P1SCP
OEAE 3AF34F 764 LD A, (NUMPLY)
OEB1 47 765 LD B, A
OEB2 4F 766 LD C, A
OEB3 C5 767 ITER41: PUSH BC
OEB4 E5 768 PUSH HL
OEB5 11BA0E 769 LD DE, ITRET
OEB8 D5 770 PUSH DE
OEB9 E9 771 JP (HL)
OEBA 111E00 772 ITRET: LD DE, SCPSIZ
OEBD DD19 773 ADD IX, DE
OEBF E1 774 POP HL
OEC0 C1 775 POP BC
OEC1 10F0 776 DJNZ ITER41-$
OEC3 C9 777 RET
778 ; UPDATE COORDINATES ROUTINE
OEC4 79 779 SCRUP1: LD A, C
OEC5 90 780 SUB B
OEC6 781 SYSSUK INDEXB
OEC6 FF 781 + RST 56
OEC7 5D 781 + DEFB INDEXB+1
781 + IF INDEXB EQ. INTPC
781 + ENDIF
OEC8 E44F 782 DEFW OSWO
OECA E60F 783 AND OFH
OECB CD0110 784 CALL GETDL ; GET DELTAS
OECF DD7E1A 785 LD A, (IX+SCXC) ; UPDATE X
OED2 82 786 ADD A, D
OED3 FE98 787 CP 152 ; OUT OF BOUNDS?
OED5 3003 788 JR NC, SCRUP1-$
OED7 DD771A 789 LD (IX+SCYC), A
OEDA DD7E1B 790 SCRUP1: LD A, (IX+SCYC) ; SAME FOR Y
OEDD 84 791 ADD A, H
OEDE FE55 792 CP 85
OEE0 D0 793 RET NC
OEE1 DD771B 794 LD (IX+SCYC), A
OEE4 C9 795 RET
796 ; RESTORE
OEE5 DDE5 797 SCRUP1: PUSH IX
OEE7 D1 798 POP DE
OEE8 1A 799 LD A, (DE)
OEE9 A7 800 AND A
OEEA C8 801 RET Z
OEEB DD661D 802 LD H, (IX+SCSADH)
OEEE DD6E1C 803 LD L, (IX+SCSADL)
OEF1 804 SYSTEM RESTOR
OEF1 FF 804 + RST 56
OEF2 2E 804 + DEFB RESTOR
804 + IF RESTOR EQ. INTPC
804 + ENDIF
OEF3 AF 805 XOR A
OEF4 12 806 LD (DE), A
OEF5 C9 807 RET
808 ; WRITE ROUTINE

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0EF6 79      309  SCRWR1: LD  A,C
0EF7 90      310          SUB  B
0EF8        311          SYSSUK INDEXB
0EF8 FF      311 +      RST  56
0EF9 5D      311 +      DEFB INDEXB+1
              311 +      IF  INDEXB.EQ. INTPC
              311 +      ENDIF
0EFA E44F    312          DEFW OSWO
0EFC E610    313          AND  10H
0EFE C3      314          RET  Z
0EFF 2B      315  SCRWR1: DEC  HL          ; BACKUP TO POT
0F00 2B      316          DEC  HL
0F01 2B      317          DEC  HL
0F02 2B      318          DEC  HL
0F03 2B      319          DEC  HL
0F04 7E      320          LD  A,(HL)
0F05 07      321          RLCA
0F06 07      322          RLCA
0F07 4F      323          LD  C,A
0F08 E603    324          AND  3
0F0A        325          SYSSUK INDEXB          ; SET SIZES
0F0A FF      325 +      RST  56
0F0B 5D      325 +      DEFB INDEXB+1
              325 +      IF  INDEXB.EQ. INTPC
              325 +      ENDIF
0F0C 260F    326          DEFW SIZTBL
0F0E DD561B  327          LD  D,(IX+CYC)
0F11 DD5E1A  328          LD  E,(IX+CXC)
0F14 47      329          LD  B,A
0F15 79      330          LD  A,C
0F16 07      331          RLCA
0F17 07      332          RLCA
0F18 E603    333          AND  3
0F1A        334  SCRWR2: SYSSUK INDEXB
0F1A FF      334 +      RST  56
0F1B 5D      334 +      DEFB INDEXB+1
              334 +      IF  INDEXB.EQ. INTPC
              334 +      ENDIF
0F1C 220F    335          DEFW COLMS
0F1E 48      336          LD  C,B
0F1F        337          SYSTEM RECTAN
0F1F FF      337 +      RST  56
0F20 1C      337 +      DEFB RECTAN
              337 +      IF  RECTAN.EQ. INTPC
              337 +      ENDIF
0F21 C9      338          RET
0F22 00      339  COLM: DEFB  0
0F23 55      340          DEFB  01010101B
0F24 AA      341          DEFB  10101010B
0F25 FF      342          DEFB  11111111B
0F26 01      343  SIZTBL: DEFB  1
0F27 02      344          DEFB  2
0F28 04      345          DEFB  4
0F29 08      346  CDELTB: DEFB  3
0F2A F8      347          DEFB -8
0F2B 01      348          DEFB  1
0F2C FF      349          DEFB -1
  
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850 ; SAVE ROUTINE
OF2D 78      851 SCRSAV: LD  A, B
OF2E        852      SYSSUK INDEXB
OF2E FF     852 +    RST  56
OF2F 5D     852 +    DEFB  INDEXB+1
              852 +    IF   INDEXB.EQ. INTPC
              852 +    ENDIF
OF30 E34F   853      DEFW  OSWO-1
OF32 E610   854      AND   10H
OF34 C0     855      RET   NZ
OF35 E5     856      PUSH HL
OF36 DD561B 857      LD   D, (IX+SCYC)
OF39 DD5E1A 858      LD   E, (IX+SCXC)
OF3C        859      SYSTEM RELAB1
OF3C FF     859 +    RST  56
OF3D 3A     859 +    DEFB  RELAB1
              859 +    IF   RELAB1.EQ. INTPC
              859 +    ENDIF
OF3E DD721D 860      LD   (IX+SCSADH), D
OF41 DD731C 861      LD   (IX+SCSADL), E
OF44 EB     862      EX   DE, HL
OF45 DDE5   863      PUSH IX
OF47 D1     864      POP  DE
OF48 010308 865      LD   BC, 0803H ; SAVE WORST CASE
OF4B        866      SYSTEM SAVE
OF4B FF     866 +    RST  56
OF4C 2C     866 +    DEFB  SAVE
              866 +    IF   SAVE.EQ. INTPC
              866 +    ENDIF
OF4D E1     867      POP  HL
OF4E 18AF   868      JR   SCRWAP$
              869 ; ZERO PLAYER GAME WRITE HANDLE
OF50 21F04E 870 ZEROP: LD  HL, ZPSTMR ; LOAD PTR TO SIZE TIMER
OF53 11F34E 871      LD  DE, ZPSZ ; AND SIZE TRACKER
OF56 35     872      DEC (HL) ; DECREMENT SIZE TIMER
OF57 F2690F 873      JP  P, ZPA ; JUMP IF NO COUNTDOWN
OF5A        874      SYSSUK RANGED ; GET NEW SIZE
OF5A FF     874 +    RST  56
OF5B 77     874 +    DEFB  RANGED+1
              874 +    IF   RANGED.EQ. INTPC
              874 +    ENDIF
OF5C 30     875      DEFB  48
OF5D FE08   876      CP   8 ; 8-47
OF5F 3802   877      JR   C, ZPO ; NO ZPO
OF61 E603   878      AND  3 ; YES HAVE MORE 1-4S
OF63 3C     879 ZPO: INC  A
OF64 12     880      LD   (DE), A ; SET NEW SIZE
OF65        881      SYSSUK RANGED ; GET NEW SIZE TIMER
OF65 FF     881 +    RST  56
OF66 77     881 +    DEFB  RANGED+1
              881 +    IF   RANGED.EQ. INTPC
              881 +    ENDIF
OF67 78     882      DEFB  120
OF68 77     883      LD   (HL), A
OF69 23     884 ZPA: INC  HL ; ADVANCE TO COLOR STUFF
OF6A 13     885      INC  DE
OF6B 35     886      DEC  (HL) ; AND DEC COLOR TIMER

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0F6C	F2770F	387		JP	P, ZPB	
0F6F		388		SYSSUK	RANGED	; GET NEW COLOR
0F6F	FF	388	+	RST	56	
0F70	77	388	+	DEFB	RANGED+1	
		388	+	IF	RANGED. EQ. INTPC	
		388	+	ENDIF		
0F71	04	389		DEFB	4	
0F72	12	390		LD	(DE), A	
0F73		391		SYSSUK	RANGED	; GET NEW COLOR TIMER
0F73	FF	391	+	RST	56	
0F74	77	391	+	DEFB	RANGED+1	
		391	+	IF	RANGED. EQ. INTPC	
		391	+	ENDIF		
0F75	78	392		DEFB	120	
0F76	77	393		LD	(HL), A	
0F77	23	394	ZPB:	INC	HL	; TO DIRECTION STUFF
0F78	13	395		INC	DE	
0F79	35	396		DEC	(HL)	; DECREMENT DIRECTION TIMER
0F7A	F2930F	397		JP	P, ZPD	
0F7D	11F54E	398	ZPC:	LD	DE, DIRVAL	; DE = DIRECTION TRACKER
0F80		399		SYSSUK	RANGED	; DRAW NEW DIRECTION
0F80	FF	399	+	RST	56	
0F81	77	399	+	DEFB	RANGED+1	
		399	+	IF	RANGED. EQ. INTPC	
		399	+	ENDIF		
0F82	0A	900		DEFB	10	
0F83	3C	901		INC	A	
0F84	FE03	902		CP	3	; REJECT ILLEGAL VALUES
0F86	28F5	903		JR	Z, ZPC	
0F88	FE07	904		CP	7	
0F8A	28F1	905		JR	Z, ZPC	
0F8C	12	906		LD	(DE), A	
0F8D		907		SYSSUK	RANGED	
0F8D	FF	907	+	RST	56	
0F8E	77	907	+	DEFB	RANGED	
		907	+	IF	RANGED. EQ. INTPC	
		907	+	ENDIF		
0F8F	28	908		DEFB	40	
0F90	32F24E	909		LD	(DIRTR), A	
0F93	1A	910	ZPD:	LD	A, (DE)	; GET DIRECTION VALUE
0F94	CD0110	911		CALL	GETDL	; GET DELTAS
0F97	010A4F	912		LD	BC, P13CP+SCXC	; POINT AT COORDINATES
0F9A	0A	913		LD	A, (BC)	
0F9B	82	914		ADD	A, D	
0F9C	FE50	915		CP	80	
0F9E	30DD	916		JR	NC, ZPC-\$; GET NEW DIRECTION IF AT LMT
0FA0	02	917		LD	(BC), A	
0FA1	5F	918		LD	E, A	; SAVE X COORDINATE
0FA2	03	919		INC	BC	
0FA3	0A	920		LD	A, (BC)	
0FA4	84	921		ADD	A, H	
0FA5	FE2E	922		CP	46	
0FA7	30D4	923		JR	NC, ZPC-\$	
0FA9	02	924		LD	(BC), A	
0FAA	57	925		LD	D, A	; SET Y COORDINATE
0FAB	21F34E	926		LD	HL, ZPSIZ	; POINT AT SIZES AGAIN
0FAE	46	927		LD	B, (HL)	

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OFAF 23      928      INC HL
OFB0 7E      929      LD A, (HL)      ; GET COLOR TOO
OFB1 CD1A0F  930      CALL SCRWR2     ; DO FIRST WRITE
OFB4 67      931      LD H, A        ; SAVE COLOR
OFB5 D5      932      PUSH DE        ; AND X, Y
OFB6 3E5C    933      LD A, 92      ; REFLECT Y
OFB8 90      934      SUB B
OFB9 92      935      SUB D
OFBA 57      936      LD D, A
OFBB 7C      937      LD A, H
OFBC        938      SYSTEM RECTAN
OFBC FF      938 +    RST 56
OFBD 1C      938 +    DEFB RECTAN
          938 +    IF RECTAN. EQ. INTPC
          938 +    ENDIF
OFBE 3EA0    939      LD A, 160      ; REFLECT X
OFC0 91      940      SUB C
OFC1 93      941      SUB E
OFC2 5F      942      LD E, A
OFC3 7C      943      LD A, H
OFC4        944      SYSTEM RECTAN
OFC4 FF      944 +    RST 56
OFC5 1C      944 +    DEFB RECTAN
          944 +    IF RECTAN. EQ. INTPC
          944 +    ENDIF
OFC6 E1      945      POP HL        ; RESTORE X, Y
OFC7 54      946      LD D, H      ; RESTORE Y
OFC8        947      SYSTEM RECTAN
OFC8 FF      947 +    RST 56
OFC9 1C      947 +    DEFB RECTAN
          947 +    IF RECTAN. EQ. INTPC
          947 +    ENDIF
OFCA 3EFF    948      LD A, OFFH    ; RESET TIMEOUT
OFCC 32EC4F  949      LD (TIMOUT), A
OFCD 3E01    950      ZERO: LD A, 1      ; RESET COUNTER-TIMER
OFD1 182A    951      DOWNS: JR ZERO2
OFD3 3AF34F  952      LD A, (NUMPL)
OFD6 3D      953      DEC A
OFD7 FE04    954      CP 4
OFD9 D2500F  955      JP NC, ZEROPL
OFDC 21C40E  956      LD HL, SCRWD
OFDF CDAA0E  957      CALL ITER4
OFE2 21E50E  958      LD HL, SCRST
OFE5 CDAA0E  959      CALL ITER4
OFE8 21F60E  960      LD HL, SCRWR
OFEB CDAA0E  961      CALL ITER4
          962      ; NOT GOING BACKWARDS SAVE AND WRITE EVERYBODY WITH TRIGG
OFEF 41      963      LD B, C
OFEF 11E2FF  964      SCRBS: LD DE, -SCPSIZ
OFF2 DD19    965      ADD IX, DE
OFF4 C5      966      PUSH BC
OFF5 CD2D0F  967      CALL SCRSAV
OFF8 C1      968      POP BC
OFF9 10F4    969      DJNZ SCRBS-$
OFFB 3E04    970      LD A, MOVTMR
OFFD 32D54F  971      ZERO2: LD (CTO), A
1000 C9     972      RET      ; DONE
  
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    973 ; SUBROUTINE TO SCARE UP DELTAS
1001 C5      974 GETDLT: PUSH BC
1002 47      975          LD  B, A
1003         976          SYSSUK MSKTD
1003 FF      976 +          RST  56
1004 7F      976 +          DEFB MSKTD+1
                976 +          IF  MSKTD. EQ. INTPC
                976 +          ENDIF
1005 0001    977          DEFW 100H
1007 00      978          DEFB 0
1008 0001    979          DEFW 100H
100A C1      980          POP  BC
100B C9      981          RET
                982 ; INITIAL COLORS:
100C 08      983 INICOL: DEFB 08H
100D 5B      984          DEFB 5BH
100E A5      985          DEFB 0A5H
100F 07      986          DEFB 007H
1010 08      987          DEFB 08H
1011 5B      988          DEFB 5BH
1012 A5      989          DEFB 0A5H
1013 07      990          DEFB 07H
                991          ORG 400003720
                992 ; SWITCH RAM:
4E38        993          DEFS 96
                994 SCPSK:
4EE8        995 COLS:  DEFS 8
>4EF0       996 ZPSTMR EQU  *
>4EF2       997 DIRTMR EQU ZPSTMR+2
>4EF3       998 ZPSMR EQU DIRTMR+1
>4EF5       999 DIRTBL EQU ZPSTMR+2
4EF0        1000 P13CP: DEFS SCPSK
4F0E        1001 P2SCP: DEFS SCPSK
4F2C        1002 P3SCP: DEFS SCPSK
4F4A        1003 P4SCP: DEFS SCPSK
4F68        1004          END
  
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TOTAL ASSEMBLER ERRORS

PROPRIETARY INFORMATION

Dave Nutting Associates, Inc.

DO NOT REPRODUCE