```
SOURCE FILE: MIDIMOCK.SCO
SOURCE FILE: MIDIMOCK.SC1
                  1; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S
0000:
                   ; SOURCE RECONSTRUCTED FROM MACHINE CODE IN 2022
0000:
0000:
0000:
                  4 : SLOT DEPENDENT ADDRESSES
                  5 PPMIDICR EQU $C0A8
C0A8:
                                            ; PASSPORT MIDI IN SLOT 2
C0A9:
                  6 PPMIDIDR EQU $C0A9
                  7 ; ADD TIMER 2 REGISTERS FOR VOLUME DIMINISH LOGIC
0000:
0000:
                 8;
C400:
                 9 MOCKBASE EQU $C400
                                            ; MOCKINGBOARD IN SLOT 4
                10;
0000:
                 11 ; APPLE ADDRESSES
0000:
C000:
                12 APPLEKBD EQU $C000
                 13 KBDSTROB EQU $C010
C010:
0000:
                14;
0000:
                15; DATA SECTIONS TO BE LOADED FROM BASIC
0D00:
                16 MIDISCRL EQU $0D00
                                            ;SCREEN ADDRESS LO OF EACH MIDI NOTE N
UMBER
                17 MIDISCRH EQU $0D80
                                            ; SCREEN ADDRESS HI OF EACH MIDI NOTE N
0D80:
UMBER
0E00:
                 18 NUMDBYTS EQU $0E00
                                            ; NUMBER OF DATA BYTES PER MIDI STATUS
MESSAGE ($980-$9FF)
                19 MOUSETXT EQU $0E80
                                            ; MOUSETXT CHARACTER FOR EACH MIDI NOTE
0E80:
 (00-7F)
0F00:
                20 MIDMOCKL EQU $0F00
                                            ;LO BYTES FOR MKB TUNINGS BY MIDI NOTE
 #
0F80:
                21 MIDMOCKH EOU $0F80
                                            :HI BYTES FOR MKB TUNINGS BY MIDI NOTE
#
0000:
0000:
                23 ; ZERO PAGE USAGE
                24 ZPTEXTL
                                            $06
                                                  ;USED FOR POKING TEXT SCREEN
0006:
                                 EQU
0007:
                25 ZPTEXTH
                                 EQU
                                            $07
                26;
0000:
                27 KEYEXIT
0020:
                                 EQU
                                            $20
                                                             ;SPACE BAR EXITS PROGR
AM
0000:
                28 ;
---- NEXT OBJECT FILE NAME IS MIDIMOCK.OBJ
0900:
                29
                                                  ORG $0900
                                                                       :ALLOWS SMAL
L BASIC PROGRAM AT $0800
0900:
                 30;
0900:4C F3 09
                                                  JMP TONEGEN
                                                                       ; PLAY MIDI I
                31
N ON MOCKINGBOARD WITH PIANO DISPLAY
0903:4C 1D 0A
                32
                                                  JMP PHASPRCS
                                                                       ;TO TEST: PO
KE INBYTE, 903G
0906:4C 44 09
                33
                                                  JMP INITPSPT
                                                                       ; INIT PASSPO
RT CARD
0909:4C 4F 09
                 34
                                                  JMP INITMOCK
                                                                       ; INIT MOCKIN
GBOARD
090C:4C D3 09
                35
                                                  JMP MIDIOUT
                                                                       ;TEST SENDIN
G ONE BYTE THRU MIDI OUT ROUTINE
090F:4C 94 09
                36
                                                  JMP MOCKPOKE
                                                                       ;TEST POKING
 ONE MOCKINGBOARD REGISTER
                                                  JMP PANIC
                                                                       ;TURN ALL SO
0912:4C C1 09
                37
UNDS OFF
0915:
                 39 ; USER POKABLE PARAMETERS
0915:
0915:00
                40 INBYTE
                                            DFB $00
                                                                 ; MIDI BYTE TO SEND
 - CAN USE FOR TESTING
                41 PIANOON
                                            $01
                                                             ;SET TO 0 TO TURN OFF
0916:01
                                 DFB
TEXT PIANO DISPLAY
0917:01
                                            DFB $01
                                                                 ;USE MIDI VELOCITY
                42 USEVEL
 WHEN PLAYING NOTES
```

0918:00

43 USEBRIT

DFB

\$00

;1=DISPLAY ONLY ONE MO

USETEXT CHARACTER				
	BRITISH	DFB	\$5D	; MOUSETEXT CHARACTER F
OR NOTE ON			•	•
091A:00 45	SPEAKER	DFB	\$00	; MOCKINGBOARD SPEAKER:
0=LEFT, \$80=RIGHT				
	MOCKREG	DFB	\$00	; MOCKINGBOARD REGISTER
: 0-13				
	MOCKBYTE DFB	\$00		;BYTE TO POKE IN MOCKINGBO
ARD REGISTER				
091D: 48		ADTADTEC		
091D: 49 091D: 50	; INTERNAL V	AKIABLES		
	, PHASE		DFB \$00	
	DATA1		DFB \$00 DFB \$00	
	DATA2		DFB \$00	
	NOTESAVE DFB	\$00	DID 400	; MUST BE THE BYT
E BEFORE NNUMSAVE	1,012,011,12 212	700		711001 22 1112 211
	NNUMSAVE DFB	\$00,\$00,	\$00,\$00,\$00,\$	00 ; NOTE NUMBER FOR EACH
VOICE PLAYING			. , , , , , , , , , , , , , , , , , , ,	,
0924:00 00 00				
0927:00 00 00 56			DFB \$	00,\$00,\$00,\$00,\$00 ;V
OICES RESERVED FOR	PHASOR			
092A:00 00 00				
	VELSAVE	DFB	\$00	; MUST BE THE
BYTE BEFORE VOICE				
	VOICEVOL DFB	\$00,\$00,	\$00 , \$00 , \$00 , \$	00 ; MOCK VOLUME FOR EACH
VOICE PLAYING				
0931:00 00 00			DED ¢	00 000 000 000 000 000
0934:00 00 00 59			DFB \$	00,\$00,\$00,\$00,\$00;V
OICES RESERVED FOR 0937:00 00 00	PHASOR			
093A: 60	•			
	, XSAVE		DFB \$00	
	YSAVE		DFB \$00	
	TEXTL		DFB \$00	
	TEXTH		DFB \$00	
093E:00 65	TEXTNOTE DFB	\$00	·	
093F:0A 66	CALCVOL	DFB	\$0A	; CONVERSION OF MIDI VO
093F:0A 66 L&VELOCITY TO MOCK		•	\$0A	; CONVERSION OF MIDI VO
L&VELOCITY TO MOCK 0940:00 67	VOLUME VOICENUM DFB	DFB \$00	\$0A	; CONVERSION OF MIDI VO
L&VELOCITY TO MOCK 0940:00 67 0941:00 68	VOLUME VOICENUM DFB CHNLSAVE DFB	DFB \$00 \$00		; CONVERSION OF MIDI VO
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS	DFB \$00 \$00 DFB	\$0A \$00	; CONVERSION OF MIDI VO
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB	DFB \$00 \$00 DFB		; CONVERSION OF MIDI VO
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ;	\$00 \$00 DFB \$00	\$00	;CONVERSION OF MIDI VO
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA	\$00 \$00 DFB \$00	\$00 #\$13	
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA	\$00 \$00 DFB \$00	\$00 #\$13 STA	PPMIDICR
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA	\$00 \$00 DFB \$00	\$00 #\$13 STA LDA	PPMIDICR #\$11
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 0948:8D A8 C0 75	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA	\$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA	PPMIDICR
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA	\$00 \$00 DFB \$00	\$00 #\$13 STA LDA	PPMIDICR #\$11
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS	PPMIDICR #\$11 PPMIDICR
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA	PPMIDICR #\$11
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 0948:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	\$00 \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	\$00 \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$02
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 095C:8D 82 C4 83	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA STA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$02 MOCKBASE+\$82
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA LDA STA STA STA LDA STA STA STA STA STA STA STA S	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 MOCKBASE+\$82 ;RESET
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0961:8D 00 C4 85	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA STA STA STA STA S	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 ;RESET MOCKBASE
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0961:8D 00 C4 85	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA STA STA STA STA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 MOCKBASE+\$82 ;RESET MOCKBASE MOCKBASE MOCKBASE
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0961:8D 00 C4 85 0964:8D 80 C4 86	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA RSETMOCK LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA LDA STA STA LDA STA STA LDA STA LDA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 ,RESET MOCKBASE
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0961:8D 00 C4 85 0964:8D 80 C4 0967:A9 04 0969:8D 00 C4	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITMOCK LDA INES RSETMOCK LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA LDA STA STA LDA STA STA STA LDA STA STA LDA STA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 MOCKBASE+\$82 ;RESET MOCKBASE
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0961:8D 00 C4 85 0964:8D 80 C4 86 0967:A9 04 87 0969:8D 00 C4 88	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITMOCK LDA INES RSETMOCK LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA LDA STA STA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 MOCKBASE+\$82 ;RESET MOCKBASE
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0967:A9 04 85 0969:8D 00 C4 86 0967:A9 04 87 0969:8D 00 C4 88 096C:8D 80 C4 89	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITMOCK LDA INES RSETMOCK LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA LDA STA STA LDA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 MOCKBASE+\$82 ;RESET MOCKBASE MOCKBASE+\$80 #\$00
L&VELOCITY TO MOCK 0940:00 67 0941:00 68 0942:00 69 0943:00 70 0944: 71 0944:A9 13 72 0946:8D A8 C0 73 0949:A9 11 74 094B:8D A8 C0 75 094E:60 76 094F: 77 094F:A9 FF 78 L FOR PRIMARY ROUT 0951:8D 03 C4 79 0954:8D 83 C4 80 0957:A9 07 81 0959:8D 02 C4 82 095C:8D 82 C4 83 095F:A9 00 84 0961:8D 00 C4 85 0964:8D 80 C4 86 0967:A9 04 87 0969:8D 00 C4 88	VOLUME VOICENUM DFB CHNLSAVE DFB GOODSTS APPLEKEY DFB ; INITPSPT LDA ; INITPSPT LDA RSETMOCK LDA RSETMOCK LDA	DFB \$00 \$00 DFB \$00	\$00 #\$13 STA LDA STA RTS #\$FF STA STA LDA STA STA STA LDA STA STA	PPMIDICR #\$11 PPMIDICR ;SEE MOCKINGBOARD MANUA MOCKBASE+\$03 MOCKBASE+\$83 #\$07 MOCKBASE+\$82 MOCKBASE+\$82 ;RESET MOCKBASE

0976:8D 1B 09 93 94	ON ALL 3 CHAN	NELS					
09791-89 38 94				S'	TA	MOCKREG	
097H:20 94 09 96 95 96 97 100 78 78 78 78 78 78 78		94					
1981 19	097B:8D 1C 09	95		S'	TA		
HT SPEAKER 0986:20 94 09 99 98	097E:20 94 09	96		J	SR	MOCKPOKE	
HT SPEAKER 998		97					;SAME ON RIG
0986;20 94 09 99 99	HT SPEAKER					•	•
0989; A2 06	0983:8D 1A 09	98		S'	TA	SPEAKER	
CED ALL CHANNELS, SO ZERO OUT STA	0986:20 94 09	99		J	SR	MOCKPOKE	
CED ALL CHANNELS, SO ZERO OUT STA	0989:A2 06	100		\mathbf{L}^{1}	DX	#\$06	; RESET SILEN
G FOR VOLUME OF EACH CHANNEL 09981:90 20 99 102 PUGYOL STA DEX 09991:00 FA 104 0993:60 105 0994:1 106; 0994:2 106; 0994:2 106; 0994:2 107 MOCKPOKE LDA SPEAKER 09997:29 80 108 09993:80 109 09993:80 111 0999:63 112 0999:63 112 09993:80 114 09983:90 00 C4 113 09983:90 00 C4 118 09983:90 00 C4 121 09983:90 00 C4 121 09983:90 00 C4 124 09983:90 00 C4 124 09983:90 00 C4 125 09983:90 00 C4 126 09983:90 00 C4 126 09983:90 00 C4 126 09983:90 00 C4 126 09983:90 00 C4 127 09983:90 00 C4 128 09983:90	CED ALL CHANNE	LS, SO ZERO OUT					•
09819D 20 09 102 PLUGVOL STA				\mathbf{L}_{1}	DA	# \$00	;OUR TRACKIN
0991;CA	G FOR VOLUME O	F EACH CHANNEL					
0991:D0 FA	098D:9D 20 09	102 PLUGVOL	STA	NOTES	AVE,	ζ	
0993;60	0990:CA	103		1	DEX		
0994: AD 1A 09	0991:D0 FA	104		B	NE	PLUGVOL	
0994; AD 1A 09	0993:60]	RTS		
0997;29 80	0994:						
0999;A8							
099A:AD 18 09 10						#\$80	
099129 0F 111 AND #\$0F 0995128 112 INY 0900:99 0C 4 113 STA MOCKBASE,Y 0903:88 114 DEY 0904:49 07 115 LDA #\$07 ;LATCH 0906:99 0C 4 116 STA MOCKBASE,Y 0909:90 0C 4 116 STA MOCKBASE,Y 0909:90 0C 4 116 STA MOCKBASE,Y 0909:90 0C 4 118 STA MOCKBASE,Y 0909:00 C4 118 STA MOCKBASE,Y 0909:00 C4 118 STA MOCKBASE,Y 0909:00 C4 120 INY 0909:90 0C 4 121 STA MOCKBASE,Y 0909:90 0C 4 121 STA MOCKBASE,Y 0909:00 C4 124 STA MOCKBASE,Y 0909:00 C4 125 LDA #\$06 ;WRITE 0908:90 0C 4 126 STA MOCKBASE,Y 0909:90 0C 4 126 STA MOCKBASE,Y 0909:00 127 RTS 0901:00 128; 0901:40 B0 129 PANIC LDA #\$00 ;MIDI MESSAGE: AL L NOTES OFF 0903:20 D3 09 130 JSR MIDIOUT 0906:20 D3 09 130 JSR MIDIOUT 0906:20 D3 09 131 LDA #\$7D ;OMNI MODE O N 0908:20 D3 09 132 JSR MIDIOUT 0909:30 10 133 LDA #\$00 0909:40 15 09 134 JSR MIDIOUT 0909:80 30 0 133 LDA #\$00 0909:40 5F 09 135 JMP RSETMOCK 0909:40 5F 09 135 JMP RSETMOCK 0909:40 15 09 140 LDA INBYTE 0909:40 15 09 144 BEQ MOUTTDRE LDA PPMIDICR 0909:40 15 09 140 LDA INBYTE 0909:40 15 09 145 LDA INBYTE 0909:40 15 09 146 LDA STA PPMIDIOR 0909:40 15 09 140 LDA INBYTE 0909:40 15 09 145 LDA INBYTE 0909:40 15 09 146 LDA INBYTE 0909:40 15 09 146 LDA INBYTE 0909:40 15 09 146 LDA STA PPMIDIOR 0909:40 15 09 140 LDA INBYTE 0909:40 15 09 140 LDA INBYTE 0909:40 15 09 145 LDA INBYTE 0909:40 15 09 146 LDA INBYTE 0909:40 15 09 147 LDA STA INBYTE 0909:40 15 09 146 LDA INBYTE 0909:40 15 09 147 LDA STA INBYTE 0909:40 15 09 149 CDA STA INBYTE 0909:40 15 09 140 LDA INBYTE							
099F;C8							
09A01:99 00 C4 113 114 DEY						#\$0F	
09A3:88							
09A4:A9 07						MOCKBASE, Y	
09A6:99							
09A9:A9							; LATCH
09AB:99 00 C4						•	
O9AE:AD 1C 09 119							
O9B1:C8						•	
O9B2:99 O0 C4 121						MOCKBYTE	
OPB5:88							
Open						MOCKBASE, Y	
O9B8:99 O0 C4 124						// c	
OBBB: A9 04 125							; WRITE
09BD:99 00 C4 126							
09C0:60						** •	
09C1:						MOCKBASE, Y	
09C1:A9 B0 129 PANIC LDA #\$B0 ;MIDI MESSAGE: AL L NOTES OFF 09C3:20 D3 09 130 09C6:A9 7D 131				1	RTS		
L NOTES OFF 09C3:20 D3 09 130 09C6:A9 7D 131				T D 7	#¢p0	• M	TOT MECCACE. AT
09C3:20 D3 09 130		129 PANIC		LDA 7	#3DU	<i>,</i> 11.	IDI MESSAGE: AL
09C6:A9 7D		130		т.	SD	MIDIOIT	
N 09C8:20 D3 09 132							•OMNI MODE O
09C8:20 D3 09 132		131		ш.	DA	πγιυ	, OHNI HODE O
09CB:A9 00 133		132		J.	SR	мтртоит	
09CD:20 D3 09 134 JSR MIDIOUT 09D0:4C 5F 09 135 JMP RSETMOCK 09D3: 136 ; 136 ; 09D3:8D 15 09 137 MIDIOUT STA INBYTE 09D6:8E 3A 09 138 STX XSAVE 09D9:8C 3B 09 139 STY YSAVE 09DC:AD 15 09 140 LDA INBYTE 09DF:8D A9 C0 141 STA PPMIDIDR 09E2:AD A8 CO 142 MOUTTDRE LDA AND #\$02 09E7:F0 F9 144 BEQ MOUTTDRE MOUTTDRE LDA INBYTE 09E9:AD 15 09 145 LDA INBYTE LDA SAVE 09EF:AC 3B 09 147 LDX XSAVE SAVE 09F3: 148 RTS CHN MIDIMOCK.SC1 MIDIMOCK.SC1 CHN MIDIMOCK.SC1 MIDIMOCK.SC1 TO							
09D0:4C 5F 09 135 JMP RSETMOCK 09D3: 136 ; 136 ; 09D3:8D 15 09 137 MIDIOUT STA INBYTE 09D6:8E 3A 09 138 STX XSAVE 09D9:8C 3B 09 139 STY YSAVE 09DC:AD 15 09 140 LDA INBYTE 09DF:8D A9 C0 141 STA PPMIDIDR 09E2:AD A8 C0 142 MOUTTDRE LDA PPMIDICR 09E5:29 02 143 AND #\$02 09E7:F0 F9 144 BEQ MOUTTDRE 09E9:AD 15 09 145 LDA INBYTE 09EC:AE 3A 09 146 LDX XSAVE 09EF:AC 3B 09 147 LDY YSAVE 09F3: 148 RTS 09F3: 149 ; CHN MIDIMOCK.SC1 09F3: 150 CHN MIDIMOCK.SC1 09F3: 150 CHN MIDIMOCK.SC1							
09D3:							
09D3:8D 15 09 137 MIDIOUT STA INBYTE 09D6:8E 3A 09 138				0.		110011	
09D6:8E 3A 09 138			STA	TNBYT	E		
09D9:8C 3B 09 139 STY YSAVE 09DC:AD 15 09 140 LDA INBYTE 09DF:8D A9 C0 141 STA PPMIDIDR 09E2:AD A8 C0 142 MOUTTDRE LDA PPMIDICR 09E5:29 02 143 AND #\$02 09E7:F0 F9 144 BEQ MOUTTDRE 09E9:AD 15 09 145 LDA INBYTE 09EC:AE 3A 09 146 LDX XSAVE 09EF:AC 3B 09 147 LDY YSAVE 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1 ; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1			2			XSAVE	
09DC:AD 15 09 140 09DF:8D A9 C0 141 09E2:AD A8 C0 142 MOUTTDRE LDA PPMIDICR 09E5:29 02 143 09E7:F0 F9 144 09E9:AD 15 09 145 09E9:AD 15 09 145 09EC:AE 3A 09 146 09EF:AC 3B 09 147 09F2:60 148 09F3: 150 CHN MIDIMOCK.SC1 09F3: 150 MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09DF:8D A9 C0 141 STA PPMIDIDR 09E2:AD A8 C0 142 MOUTTDRE LDA PPMIDICR 09E5:29 02 143 AND #\$02 09E7:F0 F9 144 BEQ MOUTTDRE 09E9:AD 15 09 145 LDA INBYTE 09EC:AE 3A 09 146 LDX XSAVE 09EF:AC 3B 09 147 LDY YSAVE 09F2:60 148 RTS 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1 ; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990 S - SOURCE 1							
09E2:AD A8 C0 142 MOUTTDRE LDA PPMIDICR 09E5:29 02 143 AND #\$02 09E7:F0 F9 144 BEQ MOUTTDRE 09E9:AD 15 09 145 LDA INBYTE 09EC:AE 3A 09 146 LDX XSAVE 09EF:AC 3B 09 147 LDY YSAVE 09F2:60 148 RTS 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1 ; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09E5:29 02 143 AND #\$02 09E7:F0 F9 144 BEQ MOUTTDRE 09E9:AD 15 09 145 LDA INBYTE 09EC:AE 3A 09 146 LDX XSAVE 09EF:AC 3B 09 147 LDY YSAVE 09F2:60 148 RTS 09F3: 149; 09F3: CHN MIDIMOCK.SC1 09F3: 1 ; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09E7:F0 F9 144 BEQ MOUTTDRE 09E9:AD 15 09 145 LDA INBYTE 09EC:AE 3A 09 146 LDX XSAVE 09EF:AC 3B 09 147 LDY YSAVE 09F2:60 148 RTS 09F3: 149; 09F3: CHN MIDIMOCK.SC1 09F3: 1 ; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1						#\$02	
09E9:AD 15 09 145 09EC:AE 3A 09 146 09EF:AC 3B 09 147 09F2:60 148 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1 ; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09EC:AE 3A 09 146 09EF:AC 3B 09 147 09F2:60 148 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09EF:AC 3B 09 147 LDY YSAVE 09F2:60 148 RTS 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09F2:60 148 RTS 09F3: 149; 09F3: 150 CHN MIDIMOCK.SC1 09F3: 1; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1							
09F3: 149; 09F3: CHN MIDIMOCK.SC1 09F3: 1; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1	09F2:60						
09F3: CHN MIDIMOCK.SC1 09F3: 1; MOCKINGBOARD MIDI TONE GENERATOR FROM THE 1990'S - SOURCE 1	09F3:	149 ;					
·		150					
09F3: 2 ; SOURCE RECONSTRUCTED FROM MACHINE CODE IN 2022		•					
	09F3:	2 ; SOURCE REC	ONSTRUCTED	FROM MA	CHINE	E CODE IN 20	22

09F3:	3 ;					
09F3:20 44 09	4 TONEGEN	JSR	TNT	TPSPT	• ENTRY PO	INT: INITIALI
ZE CARDS	1 TONEGEN	ODI		11 01 1	, LININI IO	11/1 • 11/11/11/11/11
09F6:20 4F 09	5			JSR	INITMOCK	
09F9:AD A8 C0	6 MIDIIN		LDA	PPMID		FOR MIDI REC
EIVE DATA REGIST			шиг	IIIID.	ick , whili	TOR MIDI REC
09FC:29 01	7			AND	# \$01	
09FE:D0 11	8			BNE	GRABMIDI	
0A00:AD 00 C0	9			LDA	APPLEKBD	;CHECK APPLE
KEYBOARD WHILE	-			אטם	AL L LIEKDD	, CHECK AFFEE
	10			BPL	MIDIIN	
	10 11 APPLEMSG BIT		KBDS'		MIDIIN	
	11 APPLEMSG BII		מעמא.		ADDI EKEV	
	13			STA	APPLEKEY	יו ממע הדממג.
		C		JSR	PRCSAPPL	;APPLE KBD H
ANDLER WILL SET		G		Daa	MIDITA	
	14			BCC	MIDIIN	
	15		DDWT	RTS	4010 EUE 1	
	16 GRABMIDI LDA		PPMI		;GRAB THE I	MIDI BALE
	17			JSR	PHASCHK	
	18			\mathtt{CLV}		
	19			BVC	MIDIIN	
	20 ;					
0A1A:8D 15 09	21 PHASCHK	STA	INB	YTE	;SAVE MID	I BYTE
0A1D:AD 1D 09	22 PHASPRCS LDA		PHAS	E		
0A20:D0 45	23			BNE	PHNOT00	
0A22:AD 15 09	24			LDA	INBYTE	; PHASE 0: LO
OK FOR MIDI STAT	US MESSGE					•
	25 STSMESSG AND		#\$F0			
	26			CMP	#\$90	
	27			BNE	NOTNOTE	
	28			LDA	INBYTE	;9X: SAVE MI
DI CHANNEL FOR N					11,0112	, , , , , , , , , , , , , , , , , , , ,
	29			AND	#\$0F	
	30			STA	CHNLSAVE	
	31			LDA	#\$01	;NEXT PHASE=
1, ZERO OUT DATA				шил	// V O I	, NEXT TIME
	32			STA	PHASE	
	33			STA	GOODSTS	;GOODSTS=1
	34			LDA	#\$00 #\$00	, GOODS15-1
	35			STA	DATA1	D3/30 T0 3T
	36			STA	DATA2	;DATA2 IS AL
SO A SIGNAL USED				D.M.G		
	37			RTS		
	38 ;		// +	•		
	39 NOTNOTE	CMP	#\$80			
	40			BEQ	PHAS80	
	41			LDA	#\$00	;SIGNAL TO I
	UNTIL NEXT NOTE	FOUND				
	42			STA	GOODSTS	
0A4D:60	43			RTS		;ADD ADDITI
ONAL PHASE LOGIC	HERE					
0A4E:	44 ;					
0A4E:A9 01	45 PHAS80		LDA	#\$01	;8X: 1	NEXT PHASE=1,
DATA1=0 DATA2=1						
0A50:8D 1D 09	46			STA	PHASE	
	47			STA	DATA2	
	48			STA	GOODSTS	;GOODSTS=1
	49			LDA	#\$00	,
	50			STA	DATA1	
	51			LDA	INBYTE	;SAVE CHANNE
L FOR NOTE BEING						, 511.12 5111111111
	52			AND	#\$0F	
	53			STA	CHNLSAVE	
	54			RTS	CHMTDVAT	
	55 ;			I/T D		
	56 PHNOT00	LDA	COO	חפשפ	• TCMODE D	ATA BYTES IF
	TO PHINCHUU	шUA	GUUI	DSTS	LANOKE D	ALA DIILO ALA

NOT PROCESSING A N	ОТЕ					
0A6A:D0 01 57	012			BNE	CHKDATA	
0A6C:60 58				RTS		
	CHKDATA	LDA	INE	SYTE	; HANDLE	STATUS BYTE BE
FORE DATA COMPLETE					,	
0A70:10 03 60				\mathtt{BPL}	YESDATA	
0A72:4C 25 0A 61				JMP	STSMESSG	
	YESDATA	LDA	DAT			PROCESSING A 9
X OR 8X?					,	
0A78:D0 19 63				BNE	PHDATA2	
0A7A:AE 15 09 64				LDX	INBYTE	; PROCESSING
A 9X				2011	11(5115	,1100222110
0A7D:BD 00 0D 65				LDA	MIDISCRL,X	
0A80:8D 3C 09 66				STA	TEXTL	
0A83:BD 80 0D 67				LDA	MIDISCRH,X	
0A86:8D 3D 09 68				STA	TEXTH	;SET UP ADDR
ESS TO SCREEN LINE				DIA	IDXIII	, bei of ADDR
0A89:8D 1D 09 69				STA	PHASE	;NEXT PHASE=
1				DIA	FIIADE	, NEXT FHASE-
0A8C:8D 1E 09 70				STA	DATA1	;SIGNAL TO J
UMP TO PHASE 2				DIA	DAIAI	, SIGNAL 10 0
0A8F:8E 3E 09 71				STX	TEXTNOTE	;SAVE MIDI N
OTE NUMBER				DIA	IDVINOID	, SAVE MIDI N
0A92:60 72				RTS		
0A93: 73	•			KID		
	PHDATA2	LDA	DAT	? אי	• ADF WF	PROCESSING DAT
A1 OR DATA2?	FIIDATAZ	ПЛК	DAI	AZ	, ARE WE	PROCESSING DAI
0A96:F0 2C 75				DEO	NOMEDOWN	
	мошань		T D 7	BEQ	NOTEDOWN	CAMED CODEEN
	NOTEUP		LDA	TEXTL	;GET	SAVED SCREEN
LINE BASE ADDRESS				СШЛ	Z DME VMT	
0A9B:85 06 77				STA	ZPTEXTL	
0A9D:AD 3D 09 78				LDA	TEXTH	
0AA0:85 07 79				STA	ZPTEXTH	- CEM NEVE DI
0AA2:A9 01 80	TNC CMAMIC			LDA	#\$01	;SET NEXT PH
ASE TO HANDLE RUNN 0AA4:8D 1D 09 81	ING STATUS			СШЛ	DIIACE	
				STA	PHASE	
0AA7:8D 42 09 82				STA	GOODSTS	
0AAA:A9 00 83				LDA	#\$00 BATTA 1	
0AAC:8D 1E 09 84				STA	DATA1	
0AAF:8D 1F 09 85				STA	DATA2	
0AB2:AD 16 09 86				LDA	PIANOON	
0AB5:F0 09 87				BEQ	SKIPPOKE	
0AB7:AE 3E 09 88				LDX	TEXTNOTE	GET SAVED N
OTE NUMBER						
0ABA:BD 80 0E 89				LDA	MOUSETXT,X	;RESTORE ORI
GINAL SCREEN CHARA	CTER					
0ABD:20 10 0B 90				JSR	POKETEXT	
	SKIPPOKE JSR		FIND	VOIC	;ZERO OUT	VELOCITY FOR
CURRENT NOTE						
0AC3:60 92				RTS		
	;TODO: TEST/	HANDLE RU	NNING S	TATUS		
0AC4: 94						
	NOTEDOWN LDA		INBY	TE	; PROCESSI	NG DATA2 - GET
NOTE VELOCITY						
0AC7:F0 CF 96				BEQ	NOTEUP	;PROCESS 9X
NN 00 AS NOTE OFF						
0AC9:8D 2D 09 97				STA	VELSAVE	
0ACC:A9 01 98				LDA	#\$01	;SET PHASE I
N CASE OF RUNNING	STATUS					
0ACE:8D 1D 09 99				STA	PHASE	
0AD1:8D 42 09 100				STA	GOODSTS	
0AD4:A9 00 101				LDA	# \$00	
0AD6:8D 1E 09 102				STA	DATA1	
0AD9:8D 1F 09 103				STA	DATA2	
0ADC:AD 3C 09 104				LDA	TEXTL	;THIS IS A N

OTE ON. GET S	CREEN BASE ADDRES	S				
0ADF:85 06	105			STA	ZPTEXTL	
0AE1:AD 3D 09	106			LDA	TEXTH	
0AE4:85 07	107			STA	ZPTEXTH	
0AE6:A0 00	108			LDY	#\$00	
0AE8:B1 06	109			LDA	(ZPTEXTL),Y	· CEM CAVED N
OAEA:AE 3E 09 OTE NUMBER	110			LDX	TEXTNOTE	;GET SAVED N
OAED:AD 16 09	111			LDA	PIANOON	
0AF0:F0 0B	112			BEQ	DONTPOKE	
0AF2:AD 18 09	113			LDA	USEBRIT	; IF NOT USIN
	CHAR GET CHNL NU	MBER				,
0AF5:F0 0A	114			BEQ	CHNLCHAR	
0AF7:AD 19 09	115			LDA	BRITISH	;TODO: REPLA
	OF MIDI CHANNEL					
0AFA:20 10 0B	116 POKEIT			POKET		
OAFD:20 1A OB	117 DONTPOKE JSR		PRCSV	OIC	;STORE MET	ADATA ABOUT N
OTES BEING PLA	118			RTS		
0B00:00 0B01:	119;			ктр		
0B01:AD 41 09	120 CHNLCHAR LDA		CHNLSA	VE		
0B04:18	121	•	011112011	CLC		
0B05:69 B0	122			ADC	#\$B0	; CONVERT CHA
NNEL # TO NUME	RICAL CHARACTER					•
0B07:C9 BA	123				#\$BA	
0B09:90 EF	124				POKEIT	
0B0B:69 08	125			ADC	#\$08	;CHNL 10-15
DISPLAYED WITH				TMD	DOKETE	
0B0D:4C FA 0A 0B10:	126 127 ;			JMP	POKEIT	
0B10: 0B10:A0 00	127 , 128 POKETEXT LDY		#\$00		• POKE A CH	ARACTER IN A
ON THE APPLE S			<i>"</i>		, I ONE II OII	INCIDIC IN II
0B12:91 06	129			STA	(ZPTEXTL),Y	
0B14:A9 00	130			LDA	#\$00	;NET PHASE =
0: SEARCH FOR						
0B16:8D 1D 09	131			STA	PHASE	
0B19:60 0B1A:	132 133 ;			RTS		
0B1A: 0B1A:A2 01	134 PRCSVOIC LDX		#\$01		• SAVE NOTE	NUMBER IN AR
RAY FOR VOICE	134 INCOVOIC LDA	•	# 7 01		, DIIVE NOTE	MONDER IN THE
0B1C:BD 20 09	135 CHKVOICE LDA		NOTES	SAVE, X	;LOOK AT N	OTES PLAYING
ARRAY ELEMENT				•	·	
0B1F:10 06	136			\mathtt{BPL}	CHKTEXT	;SLOT FREE
0B21:E8	137 NEXTVOIC INX	•		an.	// A A 7	G!!
0B22:E0 07	138			CPX	# \$07	;CHANGE TO #
\$0D FOR PHASOR 0B24:D0 F6	139			BNE	CHKVOICE	
0B24:B0 10 0B26:60	140			RTS	CHRVOTCH	
0B27:	141 ;			1(10		
0B27:AD 3E 09	142 CHKTEXT	LDA	TEXT	NOTE	GET NOTE	NUMBER
0B2A:F0 2C	143			BEQ	TEXTEXIT	;DON'T STORE
NOTE OFFS						
0B2C:8D 20 09	144			STA	NOTESAVE	;SAVE CURREN
T NOTE	1.45			00.	// ¢ 0 0	GTG1117 110FF
0B2F:09 80 IS ON	145			ORA	#\$80	;SIGNAL NOTE
0B31:9D 20 09	146			STA	NOTESAVE, X	;MARK VOICE
AS IN-USE	140			DIA	NOIDDAVE, A	, MARK VOICE
0B34:AD 17 09	147			LDA	USEVEL	
0B37:D0 05	148			BNE	VEL2VOL	
0B39:A9 0A	149			LDA	#\$0A	
0B3B:B8	150			CLV		
0B3C:50 0A	151			BVC	SAVEMVOL	ma a
0B3E:AD 2D 09	152 VEL2VOL	LDA	VELS	SAVE	;USE MIDI	VOL TO SCALE
VELOCITY 0B41:4A	153			LSR	А	; MOCK VOLUME
ADAT•4V	100			עומד	7.7	, FIOCK VOLUME

= MIDI VOLUME	BITS 3-6				
0B42:4A	154		LSR	A	
0B43:4A	155		LSR	A	
0B44:29 0F	156		AND	#\$0F	
0B46:F0 10	157		BEQ	TEXTEXIT	; IF MOCK VOL
•	DON'T STORE IN SLOT				
0B48:	158 ;			G3117 G31 G	
	159 SAVEMVOL STA	CALC	CVOL	;SAVE CALC	OLATED MOCK V
OLUME 0B4B:CA	160		DEX		
0B4C:8E 40 09			STX	VOICENUM	• SAVE CUPPEN
T SLOT	101		DIA	VOICHNOM	, DAVI CORREN
0B4F:AD 2D 09	162		LDA	VELSAVE	;TRACK VELOC
ITY OF EACH NO					,
0B52:9D 2D 09	163		STA	VELSAVE,X	; IN CASE NEE
DED FOR A GRAP	HIC DISPLAY				
0B55:20 59 0B			JSR	LOOKVOIC	
0B58:60	165 TEXTEXIT RTS				
0B59:	166;	// \$ 0.0		=======================================	m
	167 LOOKVOIC LDY	#\$00)	;FIGURE OU	T WHICH MOCKI
NGBOARD VOICE 0B5B:8C 1A 09	168		STY	SPEAKER	
0B5E:AD 40 09	169		LDA	VOICENUM	
0B61:29 07	170		AND	#\$07	
0B63:C9 06	171		CMP	#\$06	
0B65:90 01	172		BCC	GOODVOIC	
0B67:60	173		RTS		
0B68:C9 03	174 GOODVOIC CMP	#\$03			
0B6A:90 08	175		BCC	VOICADRS	
0B6C:38	176		SEC	// 	
0B6D:E9 03	177		SBC	#\$03 #\$00	
0B6F:A0 80 0B71:8C 1A 09	178 179		LDY STY	#\$80 SPEAKER	
0B71:8C 1A 09 0B74:0A	180 VOICADRS ASL	A	211	; REGISTER	0 2 OR 4
0B74:011 0B75:8D 1B 09	181	71	STA	MOCKREG	0, 2, OR 4
0B78:AE 20 09	182		LDX	NOTESAVE	
0B7B:BD 00 0F	183		LDA	MIDMOCKL,X	
0B7E:8D 1C 09	184		STA	MOCKBYTE	
0B81:20 94 09	185		JSR	MOCKPOKE	
0B84:AD 1B 09	186		LDA	MOCKREG	
0B87:18	187		CLC	// 	
0B88:69 01	188		ADC	#\$01	;REGISTER 1,
3, OR 5 0B8A:8D 1B 09	189		STA	MOCKREG	
0B8D:AE 20 09	190		LDX	NOTESAVE	
0B90:BD 80 0F	191		LDA	MIDMOCKH, X	
0B93:8D 1C 09	192		STA	MOCKBYTE	
0B96:20 94 09	193		JSR	MOCKPOKE	
0B99:AD 1B 09	194		LDA	MOCKREG	
0B9C:38	195		SEC		
0B9D:E9 01	196		SBC	#\$01 -	
0B9F:4A	197		LSR	A	
0BA0:18 0BA1:69 08	198 199		CLC ADC	#\$08	• DECTOMED 0
9, OR A	199		ADC	#\$00	;REGISTER 8,
0BA3:8D 1B 09	200		STA	MOCKREG	
0BA6:AD 3F 09	201		LDA	CALCVOL	
0BA9:8D 1C 09	202		STA	MOCKBYTE	
0BAC:20 94 09	203		JSR	MOCKPOKE	
0BAF:60	204		RTS		
0BB0:	205 ;				
0BB0:A2 06	206 FINDVOIC LDX	#\$06)	;FIND THE	VOICE PLAYING
THE NOTE BEIN		MORE	יז הדווארים		
0BB2:BD 20 09 0BB5:29 7F	207 FINDVLOO LDA 208	NOTE	SAVE,X AND	#\$7F	
0BB3:29 /F 0BB7:CD 3E 09	208		CMP	#\$/F TEXTNOTE	
ODDI OD JE 03	407		CLII	THUTHOTH	

0BBA:F0 04	210		BEQ	FNDVOICE
OBBC:CA	211		DEX	
0BBD:D0 F3	212		BNE	FINDVLOO
0BBF:60	213		RTS	
0BC0:	214 ;			
0BC0:A9 00	215 FNDVOICE LDA	#\$00		FREE UP VOICE FOR NOTE
THAT TURNED OF	F			
0BC2:9D 20 09 2	216		STA	NOTESAVE, X
OBC5:CA	217		DEX	
0BC6:8E 40 09 2	218		STX	VOICENUM
0BC9:A9 00 2	219		LDA	#\$00
0BCB:8D 2D 09 2	220		STA	VELSAVE
0BCE:20 59 0B 2	221		JSR	LOOKVOIC ; IS THIS A P
	CAUSE STACK OVFL?			
	222		RTS	
0BD2:	223 ;			
	224 PRCSAPPL CLC			
	225			PPLEKEY
	226		AND #	•
	227			KEYEXIT
	228		BNE N	OTEXIT
	229		SEC	
0BDD:60	230		RTS	
	231 NOTEXIT	CLC		
	232		RTS	; KEYPRESS HANDLER GOE
S HERE				
0BE0:	233 ;			

*** SUCCESSFUL ASSEMBLY: NO ERRORS

C000	APPLEKBD	0943	APPLEKEY	?0A05	APPLEMSG	0919	BRITISH
093F	CALCVOL	0A6D	CHKDATA	0B27	CHKTEXT	0B1C	CHKVOICE
0B01	CHNLCHAR	0941	CHNLSAVE	091E	DATA1	091F	DATA2
0AFD	DONTPOKE	0BB2	FINDVLOO	0BB0	FINDVOIC	0BC0	FNDVOICE
0942	GOODSTS	0B68	GOODVOIC	0A11	GRABMIDI	0915	INBYTE
094F	INITMOCK	0944	INITPSPT	C010	KBDSTROB	20	KEYEXIT
0B59	LOOKVOIC	09F9	MIDIIN	09D3	MIDIOUT	0D80	MIDISCRH
0D00	MIDISCRL	0F80	MIDMOCKH	0F00	MIDMOCKL	C400	MOCKBASE
091C	MOCKBYTE	0994	MOCKPOKE	091B	MOCKREG	0E80	MOUSETXT
09E2	MOUTTDRE	?0B21	NEXTVOIC	?0921	NNUMSAVE	0AC4	NOTEDOWN
0920	NOTESAVE	0A98	NOTEUP	0BDE	NOTEXIT	0A44	NOTNOTE
?0E00	NUMDBYTS	09C1	PANIC	0A4E	PHAS80	0A1A	PHASCHK
091D	PHASE	0A1D	PHASPRCS	0A93	PHDATA2	0A67	PHNOT00
0916	PIANOON	098D	PLUGVOL	0AFA	POKEIT	0B10	POKETEXT
C0A8	PPMIDICR	COA9	PPMIDIDR	0BD2	PRCSAPPL	0B1A	PRCSVOIC
095F	RSETMOCK	0B48	SAVEMVOL	0AC0	SKIPPOKE	091A	SPEAKER
0A25	STSMESSG	0B58	TEXTEXIT	093D	TEXTH	093C	\mathtt{TEXTL}
093E	TEXTNOTE	09F3	TONEGEN	0918	USEBRIT	0917	USEVEL
0B3E	VEL2VOL	092D	VELSAVE	0B74	VOICADRS	0940	VOICENUM
?092E	VOICEVOL	093A	XSAVE	0A75	YESDATA	093B	YSAVE
07	ZPTEXTH	06	ZPTEXTL				

			06	ZPTEXTL	07	ZPTEXTH
20 KEYEXIT	0915	INBYTE				
0916 PIANOON	0917	USEVEL	0918	USEBRIT	0919	BRITISH
091A SPEAKER	091B	MOCKREG	091C	MOCKBYTE	091D	PHASE
091E DATA1	091F	DATA2	0920	NOTESAVE	?0921	NNUMSAVE
092D VELSAVE	?092E	VOICEVOL	093A	XSAVE	093B	YSAVE
093C TEXTL	093D	TEXTH	093E	TEXTNOTE	093F	CALCVOL
0940 VOICENUM	0941	CHNLSAVE	0942	GOODSTS	0943	APPLEKEY
0944 INITPSPT	094F	INITMOCK	095F	RSETMOCK	098D	PLUGVOL
0994 MOCKPOKE	09C1	PANIC	09D3	MIDIOUT	09E2	MOUTTDRE
09F3 TONEGEN	09F9	MIDIIN	?0A05	APPLEMSG	0A11	GRABMIDI
0A1A PHASCHK	0A1D	PHASPRCS	0A25	STSMESSG	0A44	NOTNOTE
0A4E PHAS80	0A67	PHNOT00	0A6D	CHKDATA	0A75	YESDATA
0A93 PHDATA2	0A98	NOTEUP	0AC0	SKIPPOKE	0AC4	NOTEDOWN
OAFA POKEIT	0AFD	DONTPOKE	0B01	CHNLCHAR	0B10	POKETEXT
0B1A PRCSVOIC	0B1C	CHKVOICE	?0B21	NEXTVOIC	0B27	CHKTEXT
0B3E VEL2VOL	0B48	SAVEMVOL	0B58	TEXTEXIT	0B59	LOOKVOIC
0B68 GOODVOIC	0B74	VOICADRS	0BB0	FINDVOIC	0BB2	FINDVLOO
0BC0 FNDVOICE	0BD2	PRCSAPPL	0BDE	NOTEXIT	0D00	MIDISCRL
0D80 MIDISCRH	?0E00	NUMDBYTS	0E80	MOUSETXT	0F00	MIDMOCKL
0F80 MIDMOCKH	C000	APPLEKBD	C010	KBDSTROB	C0A8	PPMIDICR
COA9 PPMIDIDR	C400	MOCKBASE				