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SOURCE FILE: PHSRMIDI.SC0
SOURCE FILE: PHSRMIDI.SC1
0000:          1 ; PHASOR MIDI IN TONE GENERATOR
0000:          2 ;
----- NEXT OBJECT FILE NAME IS PHSRMIDI.OBJ
6000:          3                                ORG $6000
6000:          4 ;
6400:          5 PITCHLO          EQU          $6400          ;LOAD MIDI NOTE # TO P
ITCH MAP HERE
6480:          6 PITCHHI          EQU          $6480
C000:          7 APPLEKBD EQU $C000
C010:          8 KBDSTROB EQU $C010
6000:          9 ;
6000:         10 ; PASSPORT MIDI CONFIGURED FOR SLOT 2
6000:         11 ;
C0A8:         12 PPMIDICR EQU $C0A8          ; CONTROL REGISTER
C0A9:         13 PPMIDIDR EQU $C0A9          ; DATA REGISTER
6000:         14 ;
6000:         15 ; PHASOR CONFIGURED FOR SLOT 4:
6000:         16 ;
C0CD:         17 PHTRIG          EQU $C0CD          ; INIT
C493:         18 PHRES1          EQU $C493          ; RESET 1
C492:         19 PHRES2          EQU $C492          ; RESET 2
C411:         20 CHIPAC          EQU $C411          ; CHIP A CONTROL R
EGISTER
C410:         21 CHIPAD          EQU $C410          ; CHIP A DATA REGI
STER
C481:         22 CHIPBC          EQU $C481          ; CHIP B CONTROL R
EGISTER
C480:         23 CHIPBD          EQU $C480          ; CHIP B DATA REGI
STER
6000:         24 ;
6000:4C 8B 60 25                                JMP MAIN
6003:4C D9 62 26                                JMP CHKMIDI          ;SET MIDITES
T BYTE BELOW
6006:4C B9 60 27                                JMP PANIC
6009:4C 92 60 28                                JMP TSTNOTON          ;FOR TESTING
PHASOR NOTE ALLOCATION DIRECTLY
600C:4C 9B 60 29                                JMP TSTNOTOF
600F:         30 ;
600F:FF       31 MIDITEST DFB $FF          ;FF = USE PASSPORT MIDI, E
LSE TEST 1 MIDI BYTE
6010:00       32 KBDCMD          DFB $00          ;FOR APPLESOFT TO
READ KEYPRESS UPON EXIT
6011:00       33 SOLOCHNL DFB $00          ;HI BIT = YES, ELSE NO. LO
W 4 BITS = CHNL
6012:         34 ;
6012:00 00 00 35 NOTESON          DFB          $00,$00,$00,$00,$00,$00,$00,$00,$00,$0
0,$00,$00
6015:00 00 00
6018:00 00 00
601B:00 00 00
601E:         36 ;          ; WHICH MIDI NOTES ARE ON FOR EA
CH VOICE
601E:         37 ;
601E:00 00 00 38 NOTEVELS DFB $00,$00,$00,$00,$00,$00,$00,$00,$00,$00,$00,$00
6021:00 00 00
6024:00 00 00
6027:00 00 00
602A:         39 ;          ; VELOCITIES FOR EACH VOICE PLAY
ING
602A:         40 ;
602A:         41 ; INTERNAL VARIABLES - NOT FOR EXTERNAL USE
602A:FF       42 MIDIPHAS DFB $FF          ;STATE MACHINE PHASE. FF=A

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WAITING COMMAND
602B:90      43 MIDISTS      DFB      $90
602C:3C      44 MIDIDAT1  DFB $3C
602D:40      45 MIDIDAT2  DFB $40
602E:00      46 FREESLOT  DFB $00      ;FIRST FREE ELEMENT IN NOT
ESON AND NOTEVELS
602F:        47 ;
602F:01 01 01 48 CHIPNUM      DFB      $01,$01,$01,$02,$02,$02,$03,$03,$03,$0
4,$04,$04
6032:02 02 02
6035:03 03 03
6038:04 04 04
603B:08 09 0A 49 VOFFSET      DFB      $08,$09,$0A,$08,$09,$0A,$08,$09,$0A,$0
8,$09,$0A
603E:08 09 0A
6041:08 09 0A
6044:08 09 0A
6047:00 02 04 50 NOFFSET      DFB      $00,$02,$04,$00,$02,$04,$00,$02,$04,$0
0,$02,$04
604A:00 02 04
604D:00 02 04
6050:00 02 04
6053:        51 ;
6053:        52 ;      ; PHASOR SOUND REGISTER DATA FOR
EACH CHIP
6053:F4 00 C1 53 CHIP1PRM  DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
$00,$00
6056:00 A3 00
6059:00 38 00
605C:00 00 00
605F:00 00
6061:F4 00 C1 54 CHIP2PRM  DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
$00,$00
6064:00 A3 00
6067:00 38 00
606A:00 00 00
606D:00 00
606F:F4 00 C1 55 CHIP3PRM  DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
$00,$00
6072:00 A3 00
6075:00 38 00
6078:00 00 00
607B:00 00
607D:F4 00 C1 56 CHIP4PRM  DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
$00,$00
6080:00 A3 00
6083:00 38 00
6086:00 00 00
6089:00 00
608B:        57 ;
608B:20 A1 60 58 MAIN      JSR INITPHSR
608E:20 A6 62 59      JSR INITMIDI
6091:60      60      RTS
6092:        61 ;
6092:AE 2C 60 62 TSTNOTON LDX MIDIDAT1
6095:AC 2D 60 63
6098:4C F0 61 64      LDY MIDIDAT2
609B:        65 ;      JMP NOTEON
609B:AE 2C 60 66 TSTNOTOF LDX MIDIDAT1
609E:4C B6 61 67      JMP NOTEOFF
60A1:        68 ;
60A1:2C CD C0 69 INITPHSR BIT PHTRIG      ; INIT AND RESET
60A4:A9 FF      70      LDA #$FF
60A6:8D 93 C4      71      STA PHRES1
60A9:8D 92 C4      72      STA PHRES2
60AC:20 3A 61      73      JSR PHPLAY1      ; INIT ALL S

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OUND REGISTERS

60AF:20	59	61	74		JSR PHPLAY2
60B2:20	78	61	75		JSR PHPLAY3
60B5:20	97	61	76		JSR PHPLAY4
60B8:60			77		RTS
60B9:			78	;	
60B9:20	49	61	79	PANIC	JSR PHSTOP1 ;STOP ALL SOUNDS
60BC:20	68	61	80		JSR PHSTOP2
60BF:20	87	61	81		JSR PHSTOP3
60C2:20	A6	61	82		JSR PHSTOP4
60C5:60			83		RTS
60C6:			84	;	
60C6:8A			85	PHSROUT1 TXA	;CHIP 1: X = REGISTER
Y=DATA					
60C7:8D	11	C4	86		STA CHIPAC
60CA:A9	0F		87		LDA #\$0F
60CC:8D	10	C4	88		STA CHIPAD
60CF:A9	0C		89		LDA #\$0C
60D1:8D	10	C4	90		STA CHIPAD
60D4:98			91		TYA
60D5:8D	11	C4	92		STA CHIPAC
60D8:A9	0E		93		LDA #\$0E
60DA:8D	10	C4	94		STA CHIPAD
60DD:A9	0C		95		LDA #\$0C
60DF:8D	10	C4	96		STA CHIPAD
60E2:60			97		RTS
60E3:8A			98	PHSROUT2 TXA	;CHIP 2: X = REGISTER
Y=DATA					
60E4:8D	11	C4	99		STA CHIPAC
60E7:A9	17		100		LDA #\$17
60E9:8D	10	C4	101		STA CHIPAD
60EC:A9	14		102		LDA #\$14
60EE:8D	10	C4	103		STA CHIPAD
60F1:98			104		TYA
60F2:8D	11	C4	105		STA CHIPAC
60F5:A9	16		106		LDA #\$16
60F7:8D	10	C4	107		STA CHIPAD
60FA:A9	14		108		LDA #\$14
60FC:8D	10	C4	109		STA CHIPAD
60FF:60			110		RTS
6100:8A			111	PHSROUT3 TXA	;CHIP 3
6101:8D	81	C4	112		STA CHIPBC
6104:A9	0F		113		LDA #\$0F
6106:8D	80	C4	114		STA CHIPBD
6109:A9	0C		115		LDA #\$0C
610B:8D	80	C4	116		STA CHIPBD
610E:98			117		TYA
610F:8D	81	C4	118		STA CHIPBC
6112:A9	0E		119		LDA #\$0E
6114:8D	80	C4	120		STA CHIPBD
6117:A9	0C		121		LDA #\$0C
6119:8D	80	C4	122		STA CHIPBD
611C:60			123		RTS
611D:8A			124	PHSROUT4 TXA	;CHIP 4
611E:8D	81	C4	125		STA CHIPBC
6121:A9	17		126		LDA #\$17
6123:8D	80	C4	127		STA CHIPBD
6126:A9	14		128		LDA #\$14
6128:8D	80	C4	129		STA CHIPBD
612B:98			130		TYA
612C:8D	81	C4	131		STA CHIPBC
612F:A9	16		132		LDA #\$16
6131:8D	80	C4	133		STA CHIPBD
6134:A9	14		134		LDA #\$14
6136:8D	80	C4	135		STA CHIPBD
6139:60			136		RTS

613A:			137 ;		
613A:A2	00		138 PHPLAY1	LDX	#\$00
613C:BD	53	60	139 PARMOUT1	LDA CHIP1PRM,X	
613F:A8			140		TAY
6140:20	C6	60	141		JSR PHSROUT1
6143:E8			142		INX
6144:E0	0E		143		CPX #\$0E
6146:90	F4		144		BCC PARMOUT1
6148:60			145		RTS
6149:A2	08		146 PHSTOP1	LDX	#\$08
614B:A0	00		147		LDY #\$00
614D:20	C6	60	148		JSR PHSROUT1
6150:E8			149		INX
6151:20	C6	60	150		JSR PHSROUT1
6154:E8			151		INX
6155:20	C6	60	152		JSR PHSROUT1
6158:60			153		RTS
6159:			154 ;		
6159:A2	00		155 PHPLAY2	LDX	#\$00
615B:BD	61	60	156 PARMOUT2	LDA CHIP2PRM,X	
615E:A8			157		TAY
615F:20	E3	60	158		JSR PHSROUT2
6162:E8			159		INX
6163:E0	0E		160		CPX #\$0E
6165:90	F4		161		BCC PARMOUT2
6167:60			162		RTS
6168:A2	08		163 PHSTOP2	LDX	#\$08
616A:A0	00		164		LDY #\$00
616C:20	E3	60	165		JSR PHSROUT2
616F:E8			166		INX
6170:20	E3	60	167		JSR PHSROUT2
6173:E8			168		INX
6174:20	E3	60	169		JSR PHSROUT2
6177:60			170		RTS
6178:			171 ;		
6178:A2	00		172 PHPLAY3	LDX	#\$00
617A:BD	6F	60	173 PARMOUT3	LDA CHIP3PRM,X	
617D:A8			174		TAY
617E:20	00	61	175		JSR PHSROUT3
6181:E8			176		INX
6182:E0	0E		177		CPX #\$0E
6184:90	F4		178		BCC PARMOUT3
6186:60			179		RTS
6187:A2	08		180 PHSTOP3	LDX	#\$08
6189:A0	00		181		LDY #\$00
618B:20	00	61	182		JSR PHSROUT3
618E:E8			183		INX
618F:20	00	61	184		JSR PHSROUT3
6192:E8			185		INX
6193:20	00	61	186		JSR PHSROUT3
6196:60			187		RTS
6197:			188 ;		
6197:A2	00		189 PHPLAY4	LDX	#\$00
6199:BD	7D	60	190 PARMOUT4	LDA CHIP4PRM,X	
619C:A8			191		TAY
619D:20	1D	61	192		JSR PHSROUT4
61A0:E8			193		INX
61A1:E0	0E		194		CPX #\$0E
61A3:90	F4		195		BCC PARMOUT4
61A5:60			196		RTS
61A6:A2	08		197 PHSTOP4	LDX	#\$08
61A8:A0	00		198		LDY #\$00
61AA:20	1D	61	199		JSR PHSROUT4
61AD:E8			200		INX
61AE:20	1D	61	201		JSR PHSROUT4
61B1:E8			202		INX

61B2:20	1D 61	203		JSR PHSROUT4	
61B5:60		204		RTS	
61B6:		205	;		
61B6:8A		206	NOTEOFF	TXA	; X=MIDI NOTE NUMBER
61B7:A8		207		TAY	
61B8:A2	0B	208		LDX #\$0B	
61BA:DD	12 60	209	FINDNOTE CMP NOTESON,X		
61BD:F0	03	210		BEQ FOUNDN	
61BF:CA		211		DEX	
61C0:10	F8	212		BPL FINDNOTE	
61C2:A9	00	213	FOUNDN	LDA #\$00	
61C4:9D	12 60	214		STA NOTESON,X	
61C7:9D	1E 60	215		STA NOTEVELS,X	
61CA:BD	2F 60	216		LDA CHIPNUM,X	
61CD:A8		217		TAY	;SELECT CHI
P THEN ZERO OUT VOLUME REGISTER					
61CE:BD	3B 60	218		LDA VOFFSET,X	
61D1:AA		219		TAX	;X=REGISTER
8, 9, OR A					
61D2:C0	01	220		CPY #\$01	
61D4:D0	05	221		BNE OFFCHIP2	
61D6:A0	00	222		LDY #\$00	
61D8:4C	C6 60	223		JMP PHSROUT1	
61DB:C0	02	224	OFFCHIP2 CPY #\$02		
61DD:D0	05	225		BNE OFFCHIP3	
61DF:A0	00	226		LDY #\$00	
61E1:4C	E3 60	227		JMP PHSROUT2	
61E4:C0	03	228	OFFCHIP3 CPY #\$03		
61E6:D0	05	229		BNE OFFCHIP4	
61E8:A0	00	230		LDY #\$00	
61EA:4C	00 61	231		JMP PHSROUT3	
61ED:4C	1D 61	232	OFFCHIP4 JMP PHSROUT4		
61F0:		233	;		
61F0:98		234	NOTEON	TYA	; X=MIDI NOTE NUMBER Y=MIDI
VELOCITY (0-127)					
61F1:F0	C3	235		BEQ NOTEOFF	
61F3:29	7F	236		AND #\$7F	
61F5:4A		237		LSR A	
61F6:4A		238		LSR A	
61F7:4A		239		LSR A	
61F8:48		240		PHA	;CONVERT VEL TO 0-15
61F9:A9	FF	241		LDA #\$FF	
61FB:8D	2E 60	242		STA FREESLOT	;FF IS SIGNA
L FOR NO FREE SLOTS					
61FE:8A		243		TXA	
61FF:A2	0B	244		LDX #\$0B	
6201:DD	12 60	245	CHKNOTE CMP	NOTESON,X	
6204:F0	5A	246		BEQ NOTEXIT	;DONT STORE
NOTE IF ALREADY PLAYING ON ANY CHNL					
6206:A8		247		TAY	
6207:BD	1E 60	248		LDA NOTEVELS,X	;CHECK IF SL
OT IS FREE FOR A NEW NOTE					
620A:D0	03	249		BNE NOTFREE	
620C:8E	2E 60	250		STX FREESLOT	
620F:98		251	NOTFREE	TYA	
6210:CA		252		DEX	
6211:10	EE	253		BPL CHKNOTE	;AFTER LOOP
WE KNOW WE HAVE A GOOD NOTE #					
6213:AE	2E 60	254		LDX FREESLOT	
6216:E0	FF	255		CPX #\$FF	
6218:F0	46	256		BEQ NOTEXIT	;ALL VOICES
FULL, SUPPRESS ADDITIONAL NOTES					
621A:9D	12 60	257		STA NOTESON,X	
621D:68		258		PLA	
621E:9D	1E 60	259		STA NOTEVELS,X	
6221:48		260		PHA	;PUSH VELOC

ITY									
6222:BD 3B 60	261					LDA VOFFSET,X			
6225:48	262					PHA			;PUSH REGIS
TER NUMBER FOR VOLUME									
6226:BD 12 60	263					LDA NOTESON,X			;GET MIDI NO
TE NUMBER IN Y									
6229:A8	264					TAY			
622A:B9 80 64	265					LDA PITCHHI,Y			;PUSH PITCH
HI									
622D:F0 25	266					BEQ CHKZERO			
622F:48	267	PNOTZERO	PHA						
6230:B9 00 64	268					LDA PITCHLO,Y			;PUSH PITCH
LO									
6233:48	269					PHA			
6234:BD 47 60	270					LDA NOFFSET,X			;PUSH REGIST
ER NUMBER FOR VOICE WITHIN CHIP IN X									
6237:48	271					PHA			
6238:BD 2F 60	272					LDA CHIPNUM,X			
623B:A8	273					TAY			;SELECT CHI
P THEN POKE THE NOTE AND VOL REGISTERS									
623C:C0 01	274					CPY #\$01			
623E:D0 22	275					BNE ONCHIP2			
6240:68	276					PLA			
6241:AA	277					TAX			
6242:68	278					PLA			
6243:A8	279					TAY			
6244:20 C6 60	280					JSR PHSROUT1			
6247:E8	281					INX			
6248:68	282					PLA			
6249:A8	283					TAY			
624A:20 C6 60	284					JSR PHSROUT1			
624D:68	285					PLA			
624E:AA	286					TAX			
624F:68	287					PLA			
6250:A8	288					TAY			
6251:4C C6 60	289					JMP PHSROUT1			
6254:B9 00 64	290	CHKZERO	LDA			PITCHLO,Y			;DONT STORE PITCH IF U
NUSED PART OF PITCH MAP									
6257:F0 06	291					BEQ ZEROEXIT			
6259:B9 80 64	292					LDA PITCHHI,Y			
625C:4C 2F 62	293					JMP PNOTZERO			
625F:68	294	ZEROEXIT	PLA						;REMOVE 2 BYTES FROM S
TACK									
6260:68	295	NOTEXIT				PLA			;REMOVE BYTE THAT
WAS PUSHED BEFORE RTS									
6261:60	296					RTS			
6262:C0 02	297	ONCHIP2	CPY			#\$02			
6264:D0 14	298					BNE ONCHIP3			
6266:68	299					PLA			
6267:AA	300					TAX			
6268:68	301					PLA			
6269:A8	302					TAY			
626A:20 E3 60	303					JSR PHSROUT2			
626D:E8	304					INX			
626E:68	305					PLA			
626F:A8	306					TAY			
6270:20 E3 60	307					JSR PHSROUT2			
6273:68	308					PLA			
6274:AA	309					TAX			
6275:68	310					PLA			
6276:A8	311					TAY			
6277:4C E3 60	312					JMP PHSROUT2			
627A:C0 03	313	ONCHIP3	CPY			#\$03			
627C:D0 14	314					BNE ONCHIP4			
627E:68	315					PLA			
627F:AA	316					TAX			

6280:68		317			PLA
6281:A8		318			TAY
6282:20	00 61	319			JSR PHSROUT3
6285:E8		320			INX
6286:68		321			PLA
6287:A8		322			TAY
6288:20	00 61	323			JSR PHSROUT3
628B:68		324			PLA
628C:AA		325			TAX
628D:68		326			PLA
628E:A8		327			TAY
628F:4C	00 61	328			JMP PHSROUT3
6292:68		329	ONCHIP4	PLA	
6293:AA		330			TAX
6294:68		331			PLA
6295:A8		332			TAY
6296:20	1D 61	333			JSR PHSROUT4
6299:E8		334			INX
629A:68		335			PLA
629B:A8		336			TAY
629C:20	1D 61	337			JSR PHSROUT4
629F:68		338			PLA
62A0:AA		339			TAX
62A1:68		340			PLA
62A2:A8		341			TAY
62A3:4C	1D 61	342			JMP PHSROUT4
62A6:		343			;
62A6:		344			CHN PHSRMIDI.SC1
62A6:		1			; PHASOR MIDI IN TONE GENERATOR - SOURCE 1
62A6:		2			;
62A6:A9	13	3	INITMIDI	LDA #\$13	
62A8:8D	A8 C0	4			STA PPMIDICR
62AB:A9	11	5			LDA #\$11
62AD:8D	A8 C0	6			STA PPMIDICR
62B0:A9	FF	7			LDA #\$FF
62B2:8D	2A 60	8			STA MIDIPHAS ; INITIAL PH
ASE = WAITING FOR A MIDI COMMAND					
62B5:60		9			RTS
62B6:AD	0F 60	10	PSPTMIDI	LDA MIDITEST	; FF = REAL TIME PLAYBACK, ELSE
TEST 1 BYTE					
62B9:C9	FF	11			CMP #\$FF
62BB:F0	01	12			BEQ PSPTMID1
62BD:60		13			RTS
62BE:AD	A8 C0	14	PSPTMID1	LDA PPMIDICR	
62C1:29	01	15			AND #\$01 ; WAIT FOR R
ECEIVE DATA REGISTER FULL					
62C3:F0	F9	16			BEQ PSPTMID1
62C5:AD	A9 C0	17			LDA PPMIDIDR
62C8:C9	F8	18			CMP #\$F8 ; IGNORE REAL
TIME MESSAGES LIKE ACTIVE SENSING					
62CA:B0	F2	19			BCS PSPTMID1
62CC:60		20			RTS
62CD:AD	00 C0	21	LOOPBACK	LDA APPLEKBD	
62D0:10	07	22			BPL CHKMIDI
62D2:8D	10 60	23			STA KBDCMD
62D5:2C	10 C0	24			BIT KBDSTROB
62D8:60		25			RTS
62D9:AD	0F 60	26	CHKMIDI	LDA MIDITEST	
62DC:C9	FF	27			CMP #\$FF
62DE:D0	06	28			BNE GETMIDI
62E0:20	E6 62	29			JSR GETMIDI
62E3:4C	CD 62	30			JMP LOOPBACK
62E6:AD	2A 60	31	GETMIDI	LDA MIDIPHAS	
62E9:C9	91	32			CMP #\$91
62EB:F0	30	33			BEQ GETDAT1 ; GET FIRST D
ATA BYTE OF NOTE ON					

62ED:C9 81	34			CMP #\$81	
62EF:F0 2C	35			BEQ GETDAT1	;GET FIRST D
ATA BYTE OF NOTE OFF					
62F1:C9 92	36			CMP #\$92	
62F3:F0 34	37			BEQ GETDAT2	;GET 2ND DAT
A BYTE OF NOTE ON OR NOTE OFF MESSAGE					
62F5:C9 90	38			CMP #\$90	
62F7:D0 06	39			BNE GETMIDI1	;PROCESS STA
TUS BYTE WHEN NOT RUNNING STATUS					
62F9:AD 2B 60	40			LDA MIDISTS	;PHASE 90 -
CHECK MIDI BYTE					
62FC:4C 02 63	41			JMP SKIPMIDI	
62FF:20 B6 62	42	GETMIDI1 JSR PSPTMIDI		;PHASE FF - GET MIDI BYTE	
6302:C9 80	43	SKIPMIDI CMP #\$80			
6304:90 C7	44			BCC LOOPBACK	
6306:C9 A0	45			CMP #\$A0	
6308:B0 C3	46			BCS LOOPBACK	
630A:8D 2B 60	47			STA MIDISTS	
630D:C9 90	48			CMP #\$90	
630F:B0 06	49			BCS SETPH91	
6311:A9 81	50			LDA #\$81	
6313:8D 2A 60	51			STA MIDIPHAS	
6316:60	52			RTS	
6317:A9 91	53	SETPH91	LDA	#\$91	
6319:8D 2A 60	54			STA MIDIPHAS	
631C:60	55			RTS	
631D:20 B6 62	56	GETDAT1	JSR	PSPTMIDI	
6320:8D 2C 60	57			STA MIDIDAT1	
6323:A9 92	58			LDA #\$92	
6325:8D 2A 60	59			STA MIDIPHAS	
6328:60	60			RTS	
6329:20 B6 62	61	GETDAT2	JSR	PSPTMIDI	
632C:8D 2D 60	62			STA MIDIDAT2	
632F:A9 FF	63			LDA #\$FF	
6331:8D 2A 60	64			STA MIDIPHAS	
6334:AD 2D 60	65			LDA MIDIDAT2	
6337:F0 13	66			BEQ DONOTOFF	
6339:AD 2B 60	67			LDA MIDISTS	
633C:C9 90	68			CMP #\$90	
633E:90 0C	69			BCC DONOTOFF	
6340:	70				
6340:AE 2C 60	71	DONOTEON LDX MIDIDAT1			
6343:AC 2D 60	72			LDY MIDIDAT2	
6346:20 F0 61	73			JSR NOTEON	
6349:4C 52 63	74			JMP NEXTBYTE	
634C:AE 2C 60	75	DONOTOFF LDX MIDIDAT1			
634F:20 B6 61	76			JSR NOTEOFF	
6352:20 B6 62	77	NEXTBYTE JSR PSPTMIDI			
6355:10 0B	78			BPL SETRUNNG	
6357:8D 2B 60	79			STA MIDISTS	
635A:A9 90	80			LDA #\$90	
635C:8D 2A 60	81			STA MIDIPHAS	
635F:4C CD 62	82			JMP LOOPBACK	
6362:8D 2C 60	83	SETRUNNG STA MIDIDAT1			
6365:A9 92	84			LDA #\$92	
6367:8D 2A 60	85			STA MIDIPHAS	
636A:4C CD 62	86			JMP LOOPBACK	
636D:	87				

*** SUCCESSFUL ASSEMBLY: NO ERRORS

C000 APPLEKBD	6053 CHIP1PRM	6061 CHIP2PRM	606F CHIP3PRM
607D CHIP4PRM	C411 CHIPAC	C410 CHIPAD	C481 CHIPBC
C480 CHIPBD	602F CHIPNUM	62D9 CHKMIDI	6201 CHKNOTE
6254 CHKZERO	?6340 DONOTEON	634C DONOTOFF	61BA FINDNOTE
61C2 FOUNDN	602E FREESLOT	631D GETDAT1	6329 GETDAT2
62E6 GETMIDI	62FF GETMIDI1	62A6 INITMIDI	60A1 INITPHSR
6010 KBD CMD	C010 KBDSTROB	62CD LOOPBACK	608B MAIN
602C MIDIDAT1	602D MIDIDAT2	602A MIDIPHAS	602B MIDISTS
600F MIDITEST	6352 NEXTBYTE	6047 NOFFSET	61B6 NOTEOFF
61F0 NOTEON	6012 NOTESON	601E NOTEVELS	6260 NOTEXIT
620F NOTFREE	61DB OFFCHIP2	61E4 OFFCHIP3	61ED OFFCHIP4
6262 ONCHIP2	627A ONCHIP3	6292 ONCHIP4	60B9 PANIC
613C PARMOUT1	615B PARMOUT2	617A PARMOUT3	6199 PARMOUT4
613A PHPLAY1	6159 PHPLAY2	6178 PHPLAY3	6197 PHPLAY4
C493 PHRES1	C492 PHRES2	60C6 PHSROUT1	60E3 PHSROUT2
6100 PHSROUT3	611D PHSROUT4	6149 PHSTOP1	6168 PHSTOP2
6187 PHSTOP3	61A6 PHSTOP4	C0CD PHTRIG	6480 PITCHHI
6400 PITCHLO	622F PNOTZERO	C0A8 PPMIDICR	C0A9 PPMIDIDR
62BE PSPTMIDI1	62B6 PSPTMIDI	6317 SETPH91	6362 SETRUNNG
6302 SKIPMIDI	?6011 SOLOCHNL	609B TSTNOTOF	6092 TSTNOTON
603B VOFFSET	625F ZEROEXIT		

?6011	SOLOCHNL	6012	NOTESON	600F	MIDITEST	6010	KBDCMD
601E	NOTEVELS	602A	MIDIPHAS	602B	MIDISTS	602C	MIDIDAT1
602D	MIDIDAT2	602E	FREESLOT	602F	CHIPNUM	603B	VOFFSET
6047	NOFFSET	6053	CHIP1PRM	6061	CHIP2PRM	606F	CHIP3PRM
607D	CHIP4PRM	608B	MAIN	6092	TSTNOTON	609B	TSTNOTOF
60A1	INITPHSR	60B9	PANIC	60C6	PHSROUT1	60E3	PHSROUT2
6100	PHSROUT3	611D	PHSROUT4	613A	PHPLAY1	613C	PARMOUT1
6149	PHSTOP1	6159	PHPLAY2	615B	PARMOUT2	6168	PHSTOP2
6178	PHPLAY3	617A	PARMOUT3	6187	PHSTOP3	6197	PHPLAY4
6199	PARMOUT4	61A6	PHSTOP4	61B6	NOTEOFF	61BA	FINDNOTE
61C2	FOUNDN	61DB	OFFCHIP2	61E4	OFFCHIP3	61ED	OFFCHIP4
61F0	NOTEON	6201	CHKNOTE	620F	NOTFREE	622F	PNOTZERO
6254	CHKZERO	625F	ZEROEXIT	6260	NOTEXIT	6262	ONCHIP2
627A	ONCHIP3	6292	ONCHIP4	62A6	INITMIDI	62B6	PSPTMIDI
62BE	PSPTMIDI1	62CD	LOOPBACK	62D9	CHKMIDI	62E6	GETMIDI
62FF	GETMIDI1	6302	SKIPMIDI	6317	SETPH91	631D	GETDAT1
6329	GETDAT2	?6340	DONOTEON	634C	DONOTOFF	6352	NEXTBYTE
6362	SETRUNNG	6400	PITCHLO	6480	PITCHHI	C000	APPLEKBD
C010	KBDSTROB	C0A8	PPMIDICR	C0A9	PPMIDIDR	C0CD	PHTRIG
C410	CHIPAD	C411	CHIPAC	C480	CHIPBD	C481	CHIPBC
C492	PHRES2	C493	PHRES1				

