```
SOURCE FILE: PHSRMIDI.SCO
SOURCE FILE: PHSRMIDI.SC1
SOURCE FILE: PHSRMIDI.SC2
                 1 ; PHASOR MIDI IN TONE GENERATOR
0000:
                 2;
0000:
---- NEXT OBJECT FILE NAME IS PHSRMIDI.OBJ
6000:
                                                ORG $6000
                 4;
6000:
                                EQU
                                        $6500
6500:
                 5 PITCHLO
                                                          ;LOAD MIDI NOTE # TO P
ITCH MAP HERE
6580:
                 6 PITCHHI
                                EQU
                                          $6580
                 7 APPLEKBD EQU $C000
C000:
                 8 KBDSTROB EQU $C010
C010:
                 9 ;
6000:
                10 ; PASSPORT MIDI CONFIGURED FOR SLOT 2
6000:
6000:
                11;
                12 PPMIDICR EQU $C0A8
13 PPMIDIDR EQU $C0A9
                12 PPMIDICR EQU $C0A8
                                                   ; CONTROL REGISTER
C0A8:
C0A9:
                                                    ; DATA REGISTER
6000:
6000:
                15 ; PHASOR CONFIGURED FOR SLOT 4:
                16;
6000:
                17 PHTRIG
COCD:
                                          EQU $C0CD
                                                              ; INIT
                                                              ; RESET 1
                18 PHRES1
                                          EOU $C493
C493:
                                          EQU $C492
                19 PHRES2
                                                              ; RESET 2
C492:
                                          EQU $C411
C411:
                20 CHIPAC
                                                              ; CHIP A CONTROL R
EGISTER
                21 CHIPAD
                                          EQU $C410
C410:
                                                              ; CHIP A DATA REGI
STER
                22 CHIPBC
                                          EQU $C481
C481:
                                                              ; CHIP B CONTROL R
EGISTER
C480:
                23 CHIPBD
                                          EQU $C480
                                                              ; CHIP B DATA REGI
STER
6000:
                24;
                25 MIDIQ
2000:
                                          EQU $2000
                                                              ;256 BYTE CIRCULA
R QUEUE FOR MIDI DATA
C061:
                26 BUTTONO
                                EQU $C061
                                                          ;BUTTON 0 + NUMBER TO
MUTE A MIDI CHANNEL
                27 BUTTON1
                               EQU
                                         $C062
                                                          ;BUTTON 1 + NUMBER TO
C062:
SOLO A MIDI CHANNEL
6000:
6000:4C A1 60
                                                JMP MAIN
                                                                    ; INITIALIZE
CARDS
                                                JMP CHKMIDI
6003:4C 55 63
                                                                   ;SEND MIDI I
N DATA TO PHASOR
6006:4C CF 60
                                                JMP PANIC
                                                                    ;ALL PHASOR
SOUNDS OFF
6009:4C A8 60
                                                JMP TSTNOTON
                                                                    ; FOR TESTING
 PHASOR NOTE ALLOCATION DIRECTLY
600C:4C B1 60
                33
                                                JMP TSTNOTOF
600F:4C 15 63
                                                JMP PSPTMID1
                                                                    ;TEST PROCES
SING A QUEUE OF MIDI BYTES
6012:4C 6B 64
                                                JMP TESTPSPT
                                                                    ;TEST GRABBI
NG MIDI IN DATA FROM PASSPORT CARD
6015:
                36;
                                                ; QUEUE GROWS AT THE TAIL, SHORTE
NS AT THE HEAD
6015:00
                37 MQHEAD
                                      DFB $00
                                                              ; POINTS TO NEXT MI
DI BYTE TO BE PROCESSED
                                          DFB $00
6016:00
                38 MQTAIL
                                                              ; POINTS TO BYTE AF
TER TAIL OF QUEUE
6017:
                                                ; QUEUE IS EMPTY WHEN MOHEAD = MO
                39 ;
TAIL
                40;
6017:
6017:
                41; MIDI CHANNELS TO SOLO OR MUTE:
                                                                           ;$80 +
                42 SOLOCHNL DFB $00
```

6017:00

```
CHANNEL NUMBER TO SOLO
6018:00 00 00
                43 MUTECHNL DFB $00,$00,$00,$00,$00,$00,$00
                                                                    ;SET HI BIT
TO MUTE CHANNEL
601B:00 00 00
601E:00 00
6020:00 FF 00
                44
                                                DFB $00,$FF,$00,$00,$00,$00,
$00
        ; MUTE DRUMS ON CHNL 10
6023:00 00 00
6026:00 00
6028:
                45;
6028:00 00 00
                46 NOTESON
                                DFB
                                          $00,$00,$00,$00,$00,$00,$00,$00,$0
0,$00,$00
602B:00 00 00
602E:00 00 00
6031:00 00 00
6034:
                47;
                                                ; WHICH MIDI NOTES ARE ON FOR EA
CH PHASOR VOICE
6034:
                48;
6034:00 00 00
                6037:00 00 00
603A:00 00 00
603D:00 00 00
6040:
                50;
                                                ; VELOCITIES FOR EACH VOICE PLAY
ING
                51;
6040:
                     INTERNAL VARIABLES - NOT FOR EXTERNAL USE
6040:
                52
6040:FF
                53 MIDIPHAS DFB $FF
                                                      ;STATE MACHINE PHASE. FF=A
WAITING COMMAND
                                          $80
6041:80
                54 MIDISTS
                                DFB
                                                          ; BYTES FOR MIDI SHORT
MESSAGES STORED HERE
6042:00
                55 MIDIDAT1 DFB $00
6043:00
                56 MIDIDAT2 DFB $00
6044:00
                57 FREESLOT DFB $00
                                                      ; FIRST FREE ELEMENT IN NOT
ESON AND NOTEVELS
6045:
                58 ;
                59;
6045:
                                                ;MAP 12 PHASOR VOICES TO CHIPS A
ND REGISTERS
6045:01 01 01
                60 CHIPNUM
                                DFB
                                          $01,$01,$01,$02,$02,$02,$03,$03,$03,$0
4,$04,$04
6048:02 02 02
604B:03 03 03
604E:04 04 04
6051:08 09 0A
                61 VOFFSET
                                DFB
                                          $08,$09,$0A,$08,$09,$0A,$08,$09,$0A,$0
8,$09,$0A
6054:08 09 0A
6057:08 09 0A
605A:08 09 0A
605D:00 02 04
                                          $00,$02,$04,$00,$02,$04,$00,$02,$04,$0
                62 NOFFSET
                                DFB
0,$02,$04
6060:00 02 04
6063:00 02 04
6066:00 02 04
6069:
                63;
                64;
6069:
                                                ; PHASOR SOUND REGISTER DATA FOR
EACH CHIP
                65 CHIP1PRM DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
6069:F4 00 C1
$00,$00
606C:00 A3 00
606F:00 38
           00
6072:00 00 00
6075:00 00
6077:F4
                66 CHIP2PRM DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
        00 C1
$00,$00
607A:00 A3 00
607D:00 38 00
6080:00 00 00
```

```
6083:00 00
6085:F4 00 C1
                 67 CHIP3PRM DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
$00,$00
6088:00 A3 00
608B:00 38 00
608E:00 00 00
6091:00 00
6093:F4 00 C1
                 68 CHIP4PRM DFB $F4,$00,$C1,$00,$A3,$00,$00,$38,$00,$00,$00,$00,
$00,$00
6096:00 A3 00
6099:00 38 00
609C:00 00 00
609F:00 00
                 69;
60A1:
                 70 MAIN
60A1:20 B7 60
                                               JSR INITPHSR
60A4:20 D9 62
                 71
                                                    JSR INITMIDI
60A7:60
                 72
                                                     RTS
60A8:
                 73
60A8:AE 42 60
                 74 TSTNOTON LDX MIDIDAT1
60AB:AC 43 60
                 75
                                                   LDY MIDIDAT2
60AE:4C 1A 62
                 76
                                                   JMP NOTEON
60B1:
                 77 ;
60B1:AE 42 60
                 78 TSTNOTOF LDX MIDIDAT1
                 79
60B4:4C D8 61
                                                   JMP NOTEOFF
60B7:
                 80;
60B7:2C CD C0
                                                       ; INIT AND RESET
                 81 INITPHSR BIT PHTRIG
                                                   LDA #$FF
60BA:A9 FF
                 82
60BC:8D 93 C4
                 83
                                                   STA PHRES1
60BF:8D 92 C4
                 84
                                                   STA PHRES2
60C2:20 5C 61
                 85
                                                   JSR PHPLAY1
                                                                         ; INIT ALL S
OUND REGISTERS
60C5:20 7B 61
                 86
                                                   JSR PHPLAY2
60C8:20 9A 61
                 87
                                                    JSR PHPLAY3
60CB:20 B9 61
                 88
                                                    JSR PHPLAY4
60CE:60
                 89
                                                     RTS
60CF:
                 90;
60CF:20 6B 61
                 91 PANIC
                                              JSR PHSTOP1
                                                                    ;STOP ALL SOUNDS
60D2:20 8A 61
                 92
                                                    JSR PHSTOP2
60D5:20 A9 61
                 93
                                                    JSR PHSTOP3
                 94
                                                    JSR PHSTOP4
60D8:20 C8 61
                 95
60DB:60
                                                     RTS
                 96;
60DC:
60DC:8A
                 97 PHSROUT1 TXA
                                                               ;CHIP 1: X = REGISTER
Y=DATA
                                                   STA CHIPAC
60DD:8D 11 C4
                 98
                 99
                                                   LDA #$0F
60E0:A9 OF
60E2:8D 10 C4
                100
                                                   STA CHIPAD
                                                   LDA #$0C
60E5:A9 0C
                101
60E7:8D 10 C4
                102
                                                   STA CHIPAD
60EA:98
                103
                                                     TYA
60EB:8D 11 C4
                104
                                                   STA CHIPAC
60EE:A9 0E
                105
                                                   LDA #$0E
60F0:8D 10 C4
                                                   STA CHIPAD
                106
60F3:A9 0C
                107
                                                   LDA #$0C
60F5:8D 10 C4
                108
                                                   STA CHIPAD
60F8:20 E9 62
                109
                                                   JSR QUEUMIDI
                                                                         ;CHECK FOR A
NY MIDI MESSAGES BEFORE EXIT
60FB:60
                110
                                                    RTS
60FC:8A
                111 PHSROUT2 TXA
                                                               ;CHIP 2: X = REGISTER
Y=DATA
60FD:8D 11 C4
                112
                                                   STA CHIPAC
6100:A9 17
                                                   LDA #$17
                113
6102:8D 10 C4
                114
                                                    STA CHIPAD
6105:A9 14
                115
                                                   LDA #$14
6107:8D 10 C4
                116
                                                    STA CHIPAD
610A:98
                117
                                                     TYA
```

610B:8D	11	C4	118					STA CHIPAC			
610E:A9		-	119					LDA #\$16			
6110:8D		C4						STA CHIPAD			
6113:A9	14		121					LDA #\$14			
6115:8D	10							STA CHIPAD			
6118:20 1			123					JSR QUEUMIDI	; CHECK	FOR	Α
	MES	SAGE		EFORE EXIT	Г						
611B:60			124					RTS			
611C:8A				PHSROUT3	TXA			;CHIP 3			
611D:8D 8 6120:A9 (		C4	126					STA CHIPBC			
6120:A9 6		C/						LDA #\$0F STA CHIPBD			
6125:A9		C4	129					LDA #\$0C			
6127:8D		C4	130					STA CHIPBD			
612A:98	00	0.1	131					TYA			
612B:8D	81	C4	132					STA CHIPBC			
612E:A9			133					LDA #\$0E			
6130:8D 8	80	C4	134					STA CHIPBD			
6133:A9			135					LDA #\$0C			
6135:8D 8								STA CHIPBD			
6138:20 1			137		_			JSR QUEUMIDI	; CHECK	FOR	A
	MES	SAGE		EFORE EXIT	L'			D.M.C			
613B:60 613C:8A			138	PHSROUT4	mvλ			RTS ;CHIP 4			
613D:8D				PIISKOU14	IVH			STA CHIPBC			
6140:A9		Cī	141					LDA #\$17			
6142:8D		C4						STA CHIPBD			
6145:A9		-	143					LDA #\$14			
6147:8D 8		C4	144					STA CHIPBD			
614A:98			145					TYA			
614B:8D 8		C4	146					STA CHIPBC			
614E:A9			147					LDA #\$16			
6150:8D 8		C4	148					STA CHIPBD			
6153:A9		<b>C</b> 4	149					LDA #\$14			
6155:8D 8			151					STA CHIPBD JSR QUEUMIDI	; CHECK	₽∩D	7\
				EFORE EXI	г			USK QULUMIDI	, CHECK	ron	А
615B:60		D1101	152		_			RTS			
615C:			153	;							
615C:A2 (	00			PHPLAY1		LDX	#\$00				
615E:BD (	69	60	155	PARMOUT1	LDA	CHIP1PRM,	X				
6161:A8			156					TAY			
6162:20 I	DC	60	157					JSR PHSROUT1			
6165:E8	^=		158					INX			
6166:E0 ( 6168:90 )			159 160					CPX #\$0E BCC PARMOUT1			
616A:60	C 4		161					RTS			
616B:A2	0.8			PHSTOP1		LDX	#\$08	RIB			
616D:A0			163	11101011		2211	<i>n</i> + 0 0	LDY #\$00			
616F:20 I		60	164					JSR PHSROUT1			
6172 <b>:</b> E8			165					INX			
6173:20 I	DC	60	166					JSR PHSROUT1			
6176 <b>:</b> E8			167					INX			
6177:20 I	DC	60	168					JSR_PHSROUT1			
617A:60			169					RTS			
617B:	00		170			TDV	#¢00				
617B:A2 ( 617D:BD		60		PHPLAY2	ע ח.ד	LDX CHIP2PRM,	#\$00 x				
617D:BD 6180:A8	, ,	00	173	TAMMOUIZ	υν	CHIEZEKII,	41	TAY			
6181:20 I	FC	60	174					JSR PHSROUT2			
6184:E8			175					INX			
6185:E0 (	0E		176					CPX #\$0E			
6187:90 1			177					BCC PARMOUT2			
6189:60	_		178					RTS			
618A:A2				PHSTOP2		LDX	#\$08	T. D.T. // 4.0.0			
618C:A0	υU		180					LDY #\$00			

618E:20 FC 60 181			JSR PHSROUT2	
6191 <b>:</b> E8 182			INX	
6192:20 FC 60 183			JSR PHSROUT2	
6195:E8 184			INX	
6196:20 FC 60 185			JSR PHSROUT2	
6199:60 186			RTS	
619A: 187		// ¢ 0 0		
	PHPLAY3 LDX	#\$00		
619F:A8 190	PARMOUT3 LDA CHIP3PE	KM, X	TAY	
61A0:20 1C 61 191			JSR PHSROUT3	
61A3:E8 192			INX	
61A4:E0 0E 193			CPX #\$0E	
61A6:90 F4 194			BCC PARMOUT3	
61A8:60 195			RTS	
61A9:A2 08 196	PHSTOP3 LDX	#\$08		
61AB:A0 00 197			LDY #\$00	
61AD:20 1C 61 198			JSR PHSROUT3	
61B0:E8 199			INX	
61B1:20 1C 61 200			JSR PHSROUT3	
61B4:E8 201			INX	
61B5:20 1C 61 202			JSR PHSROUT3	
61B8:60 203	_		RTS	
61B9: 204		#\$00		
	PHPLAY4 LDX PARMOUT4 LDA CHIP4PI	•		
61BE:A8 207	FARMOUI4 LDA CHIF4FF	XM, A	TAY	
61BF:20 3C 61 208			JSR PHSROUT4	
61C2:E8 209			INX	
61C3:E0 0E 210			CPX #\$0E	
61C5:90 F4 211			BCC PARMOUT4	
61C7:60 212			RTS	
61C8:A2 08 213	PHSTOP4 LDX	#\$08		
61CA:A0 00 214			LDY #\$00	
61CC:20 3C 61 215			JSR PHSROUT4	
61CF:E8 216			INX	
61D0:20 3C 61 217			JSR PHSROUT4	
61D3:E8 218			INX	
61D4:20 3C 61 219 61D7:60 220			JSR PHSROUT4 RTS	
61D8: 221			KIS	
	, NOTEOFF	TXA	; X=MIDI NOTE	NUMBER
61D9:A8 223	NOTECTI	12121	TAY	Nonber
61DA:A2 0B 224			LDX #\$0B	
	FINDNOTE JSR QUEUMII	DI	;CHECK FOR NEW M	IIDI EACH TIME T
HRU LOOP	_		•	
61DF:DD 28 60 226			CMP NOTESON,X	
61E2:F0 08 227			BEQ FOUNDN	
61E4:CA 228			DEX	
61E5:10 F5 229			BPL FINDNOTE	
61E7:E0 FF 230			CPX #\$FF	
61E9:D0 01 231			BNE FOUNDN	
61EB:60 232	NOMEC DIAVING		RTS	; NOTE OFF N
OTE # NOT FOUND IN 61EC:A9 00 233	FOUNDN	LDA #	¢nn	
61EE:9D 28 60 234	LOONDIA	⊔∪А #	STA NOTESON,X	
61F1:9D 34 60 235			STA NOTEVELS,X	
61F4:BD 45 60 236			LDA CHIPNUM, X	
61F7:A8 237			TAY	;SELECT CHI
P THEN ZERO OUT VO	LUME REGISTER			, <del></del>
61F8:BD 51 60 238			LDA VOFFSET,X	
61FB:AA 239			TAX	;X=REGISTER
8, 9, OR A				
61FC:C0 01 240			CPY #\$01	
61FE:D0 05 241			BNE OFFCHIP2	
6200:A0 00 242			LDY #\$00	

6202:4C DC 60	243			JMP PHSROUT1	
6205:C0 02	244 OFFCHIP2 CPY	#\$02			
6207:D0 05	245			BNE OFFCHIP3	
6209:A0 00	246			LDY #\$00	
620B:4C FC 60	247			JMP PHSROUT2	
620E:C0 03 6210:D0 05 6212:A0 00	248 OFFCHIP3 CPY	#\$03			
6210:D0 05	249			BNE OFFCHIP4	
6212:A0 00	250			LDY #\$00	
6214:4C 1C 61	251			JMP PHSROUT3	
	252 OFFCHIP4 JMP	PHSROUT4			
621A: 621A:98	253 ; 254 NOTEON		mv v	; X=MIDI NOTE	NIIMDED V-MIDI
VELOCITY (0-1			TIA	; X-MIDI NOTE	NUMBER 1-MIDI
621B:F0 BB				BEQ NOTEOFF	
621D:29 7F	256			AND #\$7F	
				LSR A	
6220:4A	257 258			LSR A	
6221 <b>:</b> 4A	259				
6222 <b>:</b> C9 00	260			LSR A CMP #\$00	;PREVENT ZER
O VOLUME FOR V	ELOCITY < 8			•	·
6224:D0 02	261			BNE NOTEON1	
6226:A9 01	262 263 NOTEON1			LDA #\$01	
0220.10	263 NOTEON1		PHA	; CONV	ERT VEL TO 0-
15					
6229:A9 FF				LDA #\$FF	
622B:8D 44 60				STA FREESLOT	;FF IS SIGNA
L FOR NO FREE					
622E:8A	266			TXA	
622F:A2 0B	267	TCD	OHEHIM	LDX #\$0B	D NEW WIDT EX
CH TIME THRU I	268 CHKNOTE	JSR	QUEUM	IDI ;CHECK FO	R NEW MIDI EA
6234:DD 28 60				CMP NOTESON, X	
6237:F0 5A				BEQ NOTEXIT	; DONT STORE
	Y PLAYING ON ANY	CHNL		DIQ MOIDMII	, DOMI DIOME
6239:A8				TAY	
623A:BD 34 60	272			LDA NOTEVELS,X	; CHECK IF SL
OT IS FREE FOR	R A NEW NOTE				
623D:D0 03	273			BNE NOTFREE	
623F:8E 44 60	274			STX FREESLOT	
6242:98	275 NOTFREE		TYA		
6243:CA	276			DEX	
6244:10 EB	277			BPL CHKNOTE	;AFTER LOOP
	E A GOOD NOTE #			IDV EDEECLOS	
6246:AE 44 60 6249:E0 FF	278 279			LDX FREESLOT CPX #\$FF	
624B:F0 46	280			BEQ NOTEXIT	;ALL VOICES
	ADDITIONAL NOTES			DEQ NOTEXII	, ALL VOICES
624D:9D 28 60				STA NOTESON, X	
6250:68	282			PLA	
6251 <b>:</b> 9D 34 60				STA NOTEVELS,X	
6254:48	284			PHA	; PUSH VELOC
ITY					•
6255:BD 51 60	285			LDA VOFFSET,X	
6258:48	286			PHA	; PUSH REGIS
TER NUMBER FOR					
6259:BD 28 60				LDA NOTESON,X	GET MIDI NO
TE NUMBER IN Y					
625C:A8	288			TAY	
625D:B9 80 65	289			LDA PITCHHI,Y	;PUSH PITCH
HI	200			DD0 GWWGDD0	
6260:F0 25	290			BEQ CHKZERO	
6262:48 6263:B9 00 65	291 PNOTZERO PHA 292			IDV DIMCRIO A	• סווכט הדשכט
LO LO	<b>474</b>			LDA PITCHLO,Y	; PUSH PITCH
6266 <b>:</b> 48	293			PHA	
6267:BD 5D 60				LDA NOFFSET,X	; PUSH REGIST
	- / ·			MOLINDII/A	, - OD11 TUUTUI

ER NUMBER FOR VOICE WITHIN CHIP IN X	
626A:48 295	PHA
626B:BD 45 60 296	LDA CHIPNUM, X
626E:A8 297	TAY ;SELECT CHI
P THEN POKE THE NOTE AND VOL REGISTERS	
626F:C0 01 298	CPY #\$01
6271:D0 22 299	BNE ONCHIP2
6273:68 300	PLA
6274:AA 301	TAX
6275:68 302	PLA
6276:A8 303	TAY
6277:20 DC 60 304	JSR PHSROUT1
627A:E8 305	INX
627B:68 306	PLA
627C:A8 307	TAY
627D:20 DC 60 308	JSR PHSROUT1
6280:68 309	PLA
6281:AA 310	TAX
6282:68 311	PLA
6283:A8 312	TAY
6284:4C DC 60 313	JMP PHSROUT1
6287:B9 00 65 314 CHKZERO LDA	PITCHLO,Y ;DONT STORE PITCH IF U
NUSED PART OF PITCH MAP	DEO ZEDORYIM
628A:F0 06 315	BEQ ZEROEXIT
628C:B9 80 65 316	LDA PITCHHI,Y
628F:4C 62 62 317	JMP PNOTZERO
6292:68 318 ZEROEXIT PLA TACK	; REMOVE 2 BYTES FROM S
6293:68 319 NOTEXIT	PLA ; REMOVE BYTE THAT
WAS PUSHED BEFORE RTS	FLA , KEMOVE BITE INAT
6294:60 320	RTS
6295: 321	CHN PHSRMIDI.SC1
6295: 1; PHASOR MIDI IN TONE	
6295: 2 ;	CHARMION BOOKER I
6295:C0 02 3 ONCHIP2 CPY	#\$02
6297:D0 14 4	BNE ONCHIP3
6299:68 5	PLA
629A:AA 6	TAX
629A:AA 6 629B:68 7	TAX PLA
629B:68 7	PLA
629B:68 7 629C:A8 8	PLA TAY
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11	PLA TAY JSR PHSROUT2 INX PLA
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12	PLA TAY JSR PHSROUT2 INX PLA TAY
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAX
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18 62AD:C0 03 19 ONCHIP3 CPY	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2 #\$03
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18 62AD:C0 03 19 ONCHIP3 CPY 62AF:D0 14 20	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2 #\$03 BNE ONCHIP4
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18 62AD:C0 03 19 ONCHIP3 CPY 62B1:68 21	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18 62AD:C0 03 19 ONCHIP3 CPY 62B1:68 21 62B2:AA 22	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18 62AD:C0 03 19 ONCHIP3 CPY 62B1:68 21 62B2:AA 22 62B3:68 23	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA
629B:68	PLA TAY JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA TAX PLA TAX PLA TAX PLA TAX
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY  JSR PHSROUT2 PLA TAX PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAY JSR PHSROUT3
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAY JSR PHSROUT3 INX
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAY JSR PHSROUT3 INX PLA
629B:68 7 629C:A8 8 629D:20 FC 60 9 62A0:E8 10 62A1:68 11 62A2:A8 12 62A3:20 FC 60 13 62A6:68 14 62A7:AA 15 62A8:68 16 62A9:A8 17 62AA:4C FC 60 18 62AD:C0 03 19 ONCHIP3 CPY 62AF:D0 14 20 62B1:68 21 62B2:AA 22 62B3:68 23 62B4:A8 24 62B5:20 1C 61 25 62B8:E8 26 62B9:68 27 62BA:A8 28	PLA TAY  JSR PHSROUT2 INX PLA TAY  JSR PHSROUT2 PLA TAX PLA TAY  JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA TAX PLA TAX PLA TAX PLA TAY JSR PHSROUT3 INX PLA TAY
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY  JSR PHSROUT2 PLA TAX PLA TAY  JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA TAX PLA TAX PLA TAX PLA TAY JSR PHSROUT3 INX PLA TAY JSR PHSROUT3
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA TAY JSR PHSROUT3 INX PLA TAY JSR PHSROUT3 PLA
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAY JSR PHSROUT3 INX PLA TAY JSR PHSROUT3 PLA TAY JSR PHSROUT3 PLA TAY TAY
629B:68	PLA TAY  JSR PHSROUT2 INX PLA TAY JSR PHSROUT2 PLA TAX PLA TAY JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA TAY JSR PHSROUT3 INX PLA TAY JSR PHSROUT3 PLA
629B:68	PLA TAY  JSR PHSROUT2  INX PLA TAY  JSR PHSROUT2 PLA TAX PLA TAY  JMP PHSROUT2  #\$03  BNE ONCHIP4 PLA TAX PLA TAX PLA TAY JSR PHSROUT3 INX PLA TAY JSR PHSROUT3 PLA TAY JSR PHSROUT3 PLA TAY JSR PHSROUT3 PLA TAY PLA TAY PLA TAY

62C5:68 35	ONCHIP4	PLA	
62C6:AA 36		TAX	
62C7:68 37		PLA	
62C8:A8 38		TAY	
62C9:20 3C 61 39		JSR PHSROUT4	
62CC:E8 40		INX	
62CD:68 41		PLA	
62CE:A8 42		TAY	
62CF:20 3C 61 43		JSR PHSROUT4	
62D2:68 44		PLA	
62D3:AA 45		TAX	
62D4:68 46		PLA	
62D5:A8 47		TAY	
62D6:4C 3C 61 48		JMP PHSROUT4	
	;		
62D9: 50		CHN PHSRMIDI.SC2	
	; PHASOR MIDI IN TONE G		
62D9: 2	•	SEMERATION SOURCE 2	
62D9:A9 13 3			
62DB:8D A8 C0 4	• •	STA PPMIDICR	
62DE:A9 11 5		LDA #\$11	
62E0:8D A8 C0 6		STA PPMIDICR	
62E3:A9 FF 7		LDA #\$FF	
62E5:8D 40 60 8			INITIAL PH
ASE = WAITING FOR		,	
62E8:60 9		RTS	
	;	;TO AVOID MIDI DATA LO	SS.
	- ;	;QUEUMIDI MUST BE CALL	
40 MICROSEC	,	, 20-011-2- 1100- 2- 011-2	
	QUEUMIDI PHA		
62EA:98 13		TYA	
62EB:48 14		PHA	
	QUEUCHK LDA	PPMIDICR	
62EF:29 01 16	=	AND #\$01	
62F1:F0 1A 17		BEQ QUEUEXIT	
62F3:AD A9 C0 18		LDA PPMIDIDR	
62F6:C9 F8 19		CMP #\$F8	
62F8:B0 F2 20			EALTIME MS
GS MAY OCCUR ANYWH		710	
62FA:AC 16 60 21		LDY MQTAIL	
62FD:99 00 20 22		STA MIDIQ, Y	
6300:EE 16 60 23		INC MOTAIL	
6303:AD 16 60 24		LDA MOTAIL	
6306:CD 15 60 25		CMP MQHEAD	
6309:F0 06 26		BEQ QFULL	
630B:D0 DF 27			HECK IF AN
Y MORE BYTES AVAIL		7.0	
	QUEUEXIT PLA		
630E:A8 29		TAY	
630F:68 30		PLA	
6310:60 31		RTS	
	? QFULL		IDI BYTES
RECEIVED BEFORE AN		7250 11	101 01100
6312:A8 33		TAY	
6313:68 34		PLA	
6314:00 35		BRK	
	;		
	' PSPTMID1 LDA MQTAIL	; IF QUEUE EMPTY, LO	OP UNTIL M
IDI BYTES RECEIVED		, 20-01 1111 10	
6318:CD 15 60 38		CMP MQHEAD	
631B:F0 32 39		BEQ PSPTLOOP	
631D:AD 15 60 40			GET A BYTE
FROM QUEUE		/	<b></b>
6320:AA 41	_	TAX	
6321:EE 15 60 42		INC MQHEAD	
	B PSPTEXIT LDA MIDIQ,X	; RETURN MIDI BYTE T	O CALLER
		,	

6327:10 10	44	BPL NOTSTSB	
6329:8D 41 60	45	STA MIDISTS	; HANDLE PHAS
ING FOR STATUS N			,
632C:C9 A0	46	CMP #\$A0	
632E:B0 10	47	BCS PSPTA0	
6330 <b>:</b> C9 90	48	CMP #\$90	
6332:B0 06	49	BCS PSPT91	
6334 <b>:</b> A9 81	50	LDA #\$81	
6336:8D 40 60	51 NEXTPHAS STA M	IDIPHAS	
6339 <b>:</b> 60	52 NOTSTSB	RTS	
633A:A9 91	53 PSPT91	LDA #\$91	
633C:8D 40 60		STA MIDIPHAS	
633F:60	54 55 56 PSPTA0	RTS	
6340:C9 F0	56 PSPTA0	CMP #\$F0	
6342:90 05	5 /	BCC PSPTAI	
6344:A9 FF	58	LDA #\$FF	; MESSAGE BE
	- WAIT FOR STS BY		GUDD DUMT U
6346:8D 40 60	59	STA MIDIPHAS	; CURRENTLY
	AND COMMON MESSAGE: 60 PSPTA1		
6349:A9 A1 634B:8D 40 60	61	LDA #\$A1 STA MIDIPHAS	
634E:60	62	RTS	
	63 PSPTLOOP JSR Q		
6352:4C 15 63	64	JMP PSPTMID1	
6355:20 9E 63		SR GETMIDI	
6358:20 5E 63	66	JSR CHKBUTTN	
635B:4C 55 63	67	JMP CHKMIDI	
635E:2C 61 C0	68 CHKBUTTN BIT B		
6361:30 06	69	BMI MUTE	
6363:2C 62 C0	70	BIT BUTTON1	
6366:30 1E	71	BMI SOLO	
6368:60	72	RTS	
6369:AD 00 C0	73 MUTE	LDA APPLEKBD	
636C:10 17	74	BPL NOKEY	
636E:2C 10 C0	75	BIT KBDSTROB	
6371:C9 B0	76	CMP #´0´	
6373:90 10	77	BCC NOKEY	
6375:C9 B9	78	CMP # 9 °	
6377:B0 0C	79	BCS NOKEY	
6379:38	80	SEC	
637A:E5 B0	81	SBC '0'	
637C:8D 18 60	82	STA MUTECHNL	- MOGGI TNG MI
637F:A9 FF TE DISABLES SOLO	83 NODE	LDA #\$FF	;TOGGLING MU
6381:8D 17 60	84	STA SOLOCHNL	
6384:00	85	BRK	
6385:60	86 NOKEY	RTS	
6386:AD 00 C0	87 SOLO	LDA APPLEKBD	
6389:10 FA	88	BPL NOKEY	
638B:2C 10 C0	89	BIT KBDSTROB	
638E:C9 B0	90	CMP #'0'	
6390:90 F3	91	BCC NOKEY	
6392 <b>:</b> C9 B9	92	CMP #'9'	
6394:B0 EF	93	BCS NOKEY	
6396 <b>:</b> 38	94	SEC	
6397 <b>:</b> E9 B0	95	SBC #´0´	
6399:8D 17 60	96	STA SOLOCHNL	
639C:00	97	BRK	
639D:60	98	RTS	
639E:AD 40 60		DA MIDIPHAS	
	100	CMP #\$91	<b>~~~</b>
	101	BEQ GETDAT1	GET FIRST D
ATA BYTE OF NOTE		OND #401	
	102	CMP #\$81	· CEM ETDCM D
	103	BEQ GETDAT1	;GET FIRST D
ATA BYTE OF NOTE	i Uff		

63A9:C9 92 104			C	·ΜΡ	#\$92		
63AB:F0 7A 105					GETDAT2		GET 2ND DAT
A BYTE OF NOTE ON		ESSAGE	2	2_2	0212111 <b>2</b>		,021 210 2111
63AD:C9 A1 106			С	CMP	#\$A1		;SOLO OR MUT
E - EAT NEXT 2 DAT			_		,		,
63AF:F0 4C 107			В	BEQ	EATDAT1		
63B1:C9 A2 108				_	#\$A2		
63B3:F0 51 109					EATDAT2		; NON-NOTE ME
SSAGE - EAT 2ND DA	TA BYTE			-			•
63B5 <b>:</b> C9 90 110			С	CMP	#\$90		
63B7:D0 06 111			В	BNE	GETMIDI1		; PROCESS STA
TUS BYTE WHEN NOT	RUNNING STATUS	5					
63B9:AD 41 60 112	•		L	DA	MIDISTS		;PHASE 90 -
CHECK MIDI BYTE							
63BC:4C C2 63 113					SKIPMIDI		
	GETMIDI1 JSR			;PH	ASE FF -	GET MI	DI BYTE
	SKIPMIDI CMP	#\$80					
63C4:90 8F 116					CHKMIDI		
63C6:C9 A0 117					#\$A0		
63C8:B0 2B 118					NOTNOTE		
63CA:C9 90 119					#\$90		
63CC:B0 06 120					SETPH91		
63CE:A9 81 121					#\$81		
63D0:8D 40 60 122					MIDIPHAS		
63D3:60 123 63D4:AD 41 60 124	SETPH91	LDA		RTS			
63D7:29 OF 125		цυA	MIDISTS		#\$0F		
63D9:AA 126				TAX	•		
63DA:2C 17 60 127					SOLOCHNL		
63DD:30 0B 128					SOLOUING		
63DF:BD 18 60 129					$\mathtt{MUTECHNL}$	- X	
63E2:D0 0B 130					MUTING	, 11	
	PHAS91		LDA #\$9				
63E6:8D 40 60 132			•		MIDIPHAS		
63E9:60 133				RTS			
	SOLOING	CPX	SOLOCHN	1L			
63ED:F0 F5 135			В	ВEQ	PHAS91		
63EF:A9 A1 136	MUTING		LDA #\$A	1			
63F1:8D 40 60 137			S	STA	MIDIPHAS		
63F4 <b>:</b> 60 138				RTS			
	NOTNOTE	CMP	#\$C0				
63F7:90 16 140					NOTPC		
63F9:C9 D0 141					#\$D0		
63FB:B0 12 142		Tab			NOTPC	07.0	
	EATDAT1	JSR	PSPTMID	JΤ	; S	OLO OR .	MUTE, AND NOT
PLAYING THIS MESS			-	. D. 7	<b>#</b> ¢⊼⊃		
6400:A9 A2 144					#\$A2		
6402:8D 40 60 145 6405:60 146				RTS	MIDIPHAS		
	EATDAT2	JSR	PSPTMID			POCDAM	CHANGE HAS 1
DATA BYTE	LAIDAIZ	OBK	ISIIMID	1	, -	ROGRAM	CHANGE HAD I
6409:A9 FF 148	<b>\</b>		т.	.DA	#\$FF		
640B:8D 40 60 149					" YII MIDIPHAS		
640E:60 150				RTS			
	NOTPC		STA MI				
6412:20 15 63 152					PSPTMID1		;OTHER MIDI
MESSAGES HAVE 2 DA							
6415:A9 A2 153	}		L	DA	#\$A2		
6417:8D 40 60 154					MIDIPHAS		
641A:60 155				RTS			
	GETDAT1	JSR	PSPTMID				
641E:8D 42 60 157					MIDIDAT1		
6421:A9 92 158					#\$92		
6423:8D 40 60 159					MIDIPHAS		
6426:60 160				RTS			
6427:20 15 63 161	GETDAT2	JSR	PSPTMID	JΤ			

```
642A:8D 43 60
                                               STA MIDIDAT2
              162
642D:A9 FF
                                               LDA #$FF
              163
642F:8D 40 60 164
                                               STA MIDIPHAS
6432:AD 43 60 165
                                               LDA MIDIDAT2
6435:F0 13
              166
                                               BEQ DONOTOFF
6437:AD 41 60 167
                                               LDA MIDISTS
643A:C9 90
                                              CMP #$90
             168
                                              BCC DONOTOFF
643C:90 0C
             169
643E:
              170;
643E:AE 42 60 171 DONOTEON LDX MIDIDAT1
6441:AC 43 60 172
                                              LDY MIDIDAT2
6444:20 1A 62
                                              JSR NOTEON
             173
6447:4C 50 64
             174
                                              JMP NEXTBYTE
644A:AE 42 60 175 DONOTOFF LDX MIDIDAT1
644D:20 D8 61 176
                                              JSR NOTEOFF
6450:20 15 63 177 NEXTBYTE JSR PSPTMID1
6453:10 OB
                                               BPL SETRUNNG
              178
6455:8D 41 60 179
                                              STA MIDISTS
6458:A9 90
              180
                                              LDA #$90
645A:8D 40 60
             181
                                              STA MIDIPHAS
645D:4C 55 63
             182
                                              JMP CHKMIDI
6460:8D 42 60 183 SETRUNNG STA MIDIDAT1
6463:A9 92
                                              LDA #$92
              184
6465:8D 40 60 185
                                              STA MIDIPHAS
6468:4C 55 63 186
                                              JMP CHKMIDI
646B:
              187;
646B:AD A8 C0 188 TESTPSPT LDA PPMIDICR
                                              ;TEST GRABBING MIDI BYTES AS FA
ST AS POSSIBLE
646E:29 01
              189
                                               AND #$01
6470:F0 F9
                                               BEQ TESTPSPT
              190
6472:AD A9 C0 191
                                               LDA PPMIDIDR
6475:C9 F8
             192
                                               CMP #$F8
6477:B0 F2
             193
                                               BCS TESTPSPT
6479:8D 00 20 194 SELFMOD STA $2000
647C:EE 7A 64 195
                                               INC SELFMOD+1
647F:AD 7A 64 196
                                               LDA SELFMOD+1
6482:D0 E7
                                               BNE TESTPSPT
              197
6484:EE 7B 64 198
                                               INC SELFMOD+2
6487:AD 7B 64 199
                                               LDA SELFMOD+2
648A:C9 60
                                               CMP #$60
             200
648C:D0 DD
                                              BNE TESTPSPT
             201
              202
648E:00
                                               BRK
648F:
              203 ;
```

\*\*\* SUCCESSFUL ASSEMBLY: NO ERRORS

C000	APPLEKBD	C061	BUTTON0	C062	BUTTON1	6069	CHIP1PRM
6077	CHIP2PRM	6085	CHIP3PRM	6093	CHIP4PRM	C411	CHIPAC
C410	CHIPAD	C481	CHIPBC	C480	CHIPBD	6045	CHIPNUM
635E	CHKBUTTN	6355	CHKMIDI	6231	CHKNOTE	6287	CHKZERO
?643E	DONOTEON	644A	DONOTOFF	63FD	EATDAT1	6406	EATDAT2
61DC	FINDNOTE	61EC	FOUNDN	6044	FREESLOT	641B	GETDAT1
6427	GETDAT2	63BF	GETMIDI1	639E	GETMIDI	62D9	INITMIDI
60B7	INITPHSR	C010	KBDSTROB	60A1	MAIN	6042	MIDIDAT1
	MIDIDAT2	6040	MIDIPHAS	2000	MIDIQ	6041	MIDISTS
6015	MQHEAD	6016	MQTAIL	6369	MUTE	6018	MUTECHNL
63EF	MUTING	6450	NEXTBYTE	?6336	NEXTPHAS	605D	NOFFSET
6385	NOKEY		NOTEOFF		NOTEON1	621A	NOTEON
6028	NOTESON	6034	NOTEVELS	6293	NOTEXIT	6242	NOTFREE
63F5	NOTNOTE	640F	NOTPC	6339	NOTSTSB	6205	OFFCHIP2
620E	OFFCHIP3	6217	OFFCHIP4	6295	ONCHIP2	62AD	ONCHIP3
62C5	ONCHIP4	60CF	PANIC	615E	PARMOUT1	617D	PARMOUT2
619C	PARMOUT3	61BB	PARMOUT4	63E4	PHAS91	615C	PHPLAY1
617B	PHPLAY2	619A	PHPLAY3	61B9	PHPLAY4	C493	PHRES1
C492	PHRES2	60DC	PHSROUT1	60FC	PHSROUT2	611C	PHSROUT3
613C	PHSROUT4	616B	PHSTOP1	618A	PHSTOP2	61A9	PHSTOP3
61C8	PHSTOP4	C0CD	PHTRIG	6580	PITCHHI	6500	PITCHLO
6262	PNOTZERO	C0A8	PPMIDICR		PPMIDIDR		PSPT91
6340	PSPTA0	6349	PSPTA1	?6324	PSPTEXIT	634F	PSPTLOOP
6315	PSPTMID1	6311	QFULL	62EC	QUEUCHK	630D	QUEUEXIT
62E9	QUEUMIDI	6479	SELFMOD	63D4	SETPH91	6460	SETRUNNG
63C2	SKIPMIDI	6017	SOLOCHNL	63EA	SOLOING	6386	SOLO
646B	TESTPSPT	60B1	TSTNOTOF	60A8	TSTNOTON	6051	VOFFSET
6292	ZEROEXIT						

		2000	MIDIQ	6015	MQHEAD	6016	MQTAIL
6017	SOLOCHNL						
6018	MUTECHNL	6028	NOTESON	6034	NOTEVELS	6040	MIDIPHAS
6041	MIDISTS	6042	MIDIDAT1	6043	MIDIDAT2	6044	FREESLOT
6045	CHIPNUM	6051	VOFFSET	605D	NOFFSET	6069	CHIP1PRM
6077	CHIP2PRM	6085	CHIP3PRM	6093	CHIP4PRM	60A1	MAIN
60A8	TSTNOTON	60B1	TSTNOTOF	60B7	INITPHSR	60CF	PANIC
60DC	PHSROUT1	60FC	PHSROUT2	611C	PHSROUT3		PHSROUT4
615C	PHPLAY1	615E	PARMOUT1	616B	PHSTOP1	617B	PHPLAY2
617D	PARMOUT2	618A	PHSTOP2	619A	PHPLAY3	619C	PARMOUT3
61A9	PHSTOP3	61B9	PHPLAY4	61BB	PARMOUT4	61C8	PHSTOP4
61D8	NOTEOFF	61DC	FINDNOTE	-	FOUNDN		OFFCHIP2
620E		6217	OFFCHIP4	621A	NOTEON	6228	NOTEON1
	CHKNOTE	-	NOTFREE		PNOTZERO		CHKZERO
6292			NOTEXIT		ONCHIP2	62AD	ONCHIP3
	ONCHIP4	62D9	INITMIDI		QUEUMIDI		QUEUCHK
	QUEUEXIT	6311			PSPTMID1		PSPTEXIT
	NEXTPHAS		NOTSTSB		PSPT91		PSPTA0
	PSPTA1		PSPTLOOP		CHKMIDI		CHKBUTTN
6369	MUTE	6385	NOKEY		SOLO	639E	GETMIDI
			SKIPMIDI		SETPH91		PHAS91
	SOLOING		MUTING	63F5	NOTNOTE	63FD	EATDAT1
6406	EATDAT2		NOTPC		GETDAT1	6427	GETDAT2
?643E	DONOTEON	644A	DONOTOFF	6450	NEXTBYTE	6460	SETRUNNG
646B	TESTPSPT		SELFMOD		PITCHLO		PITCHHI
C000	APPLEKBD		KBDSTROB		BUTTON0		BUTTON1
	PPMIDICR	COA9	PPMIDIDR	COCD	PHTRIG		CHIPAD
C411	CHIPAC	C480	CHIPBD	C481	CHIPBC	C492	PHRES2
C493	PHRES1						