A552
Sept. 29 '85
For PP APPLE

```
]PR#0
:CATALOG


DISK VOLUME 254

 A 002 HELLO
*B 036 ASSM
*B 016 EDITOR
 B 002 ASMIDSTAMP
*B 008 EDASM.OBJ
*B 020 FID
*A 003 EDASM
 T 005 APCOM
 T 026 ASSCTL
 B 018 ASS2.OBJ0
 T 028 ASS2
 T 001 ASSNEW

:ASM ASS2



PRESS ANY KEY TO CONTINUE

:.PR#0\


SYNTAX ERROR

:.PR#0


SOURCE FILE: ASS2
SOURCE FILE: ASSCTL
0000:            1 ;APPLE.SOUND
0000:            2 ;P.P.
0000:            3 ;SLIDE.9/13/85
C030:            4 SPEAKER EQU  $C030
0000:            5         DSECT
00E0:            6         ORG  $E0
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00E0:            6          ORG  $E0
00E0:            7 NOTECOUNT DS 2
00E2:            8 Z1COUNT DS   2
00E4:            9 TEMPERARY DS 2
0000:           10          DEND
----- NEXT OBJECT FILE NAME IS ASS2.OBJ0
1000:           11          ORG  $1000
1000:AD 10 C0   12          LDA  $C010
1003:4C AD 15   13          JMP  WAITGO
1006:A9 FF      14 INIT     LDA  #$FF
1008:85 E0      15          STA  NOTECOUNT
100A:4C 30 10   16          JMP  APPLEGO
100D:           17 SAVECOUNT DS 1
100E:           18 Z1COMP   DS   2
1010:           19 Z2COMP   DS   2
1012:           20 Z1WAVE   DS   2          ;OCT.ADJ.PULSE.WIDTH
1014:           21 Z2WAVE   DS   2
1016:           22 TIMEFACT DS   1
1017:           23 OCTUPUS DS    4
101B:           24 TIME1    DS   1
101C:           25 TIME5    DS   1
101D:           26 TIME3    DS   1
101E:           27 TIME7    DS   1
101F:           28 TEMP     DS   1
1020:           29 LENADJ   DS   1
1021:00 00 00   30 SLPUTE   DFB  0,0,0
1024:00         31 SVOLDINDEX DFB 0
1025:00         32 OCTMINUS1 DFB 0
1026:00         33 FIRSTSLID DFB 0
1027:00 00 00   34 OLDCOMP DFB  0,0,0
102A:00 00      35 STIMEFACT DFB 0,0
102C:00         36 AMTSIGN DFB  0
102D:00         37 AMTANDOUT DFB 0
102E:00 00      38 AMTWORK DFB  0,0
1030:           39 APPLEGO EQU  *
1030:AD 00 C0   40          LDA  $C000
1033:C9 9B      41          CMP  #$9B
1035:D0 04      42          BNE  NOUT
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1037:AD 10 C0   43          LDA  $C010
103A:60         44          RTS
103B:           45 NOUT     EQU  *
103B:AD 10 C0   46          LDA  $C010
103E:E6 E0      47 ZG01     INC  NOTECOUNT
1040:A5 E0      48          LDA  NOTECOUNT
1042:C9 0C      49          CMP  #12
1044:D0 03      50          BNE  NXTNOTE
1046:4C 06 10   51          JMP  INIT
1049:           52 NXTNOTE  EQU  *
1049:           53 GONOTE   EQU  *
1049:A5 E0      54          LDA  NOTECOUNT
104B:           55 ;GET.NOTE.IN.OCTAVE
104B:29 0F      56          AND  #$F
104D:0A         57          ASL  A
104E:AA         58          TAX
104F:BD 87 14   59          LDA  NOTETBL,X
1052:8D 0E 10   60          STA  Z1COMP
1055:BD 88 14   61          LDA  NOTETBL+1,X
1058:8D 0F 10   62          STA  Z1COMP+1
105B:AD 01 15   63          LDA  SLIDFLAG
105E:F0 0D      64          BEQ  DOWIDTH
1060:A9 00      65          LDA  #0
1062:8D 12 10   66          STA  Z1WAVE
1065:8D 13 10   67          STA  Z1WAVE+1
1068:8D 26 10   68          STA  FIRSTSLID
106B:F0 0C      69          BEQ  DIDPWVAL
106D:           70 DOWIDTH  EQU  *
106D:AD F2 14   71          LDA  PWVALUE
1070:8D 12 10   72          STA  Z1WAVE
1073:AD F3 14   73          LDA  PWVALUE+1
1076:8D 13 10   74          STA  Z1WAVE+1
1079:           75 DIDPWVAL EQU  *
1079:BD A1 14   76          LDA  TIMETBL,X
107C:8D 17 10   77          STA  OCTUPUS
107F:BD A2 14   78          LDA  TIMETBL+1,X
1082:8D 18 10   79          STA  OCTUPUS+1
1085:AD F8 14   80          LDA  QUIK
1088:F0 06      81          BEQ  OKQUIKS
108A:4E 18 10   82          LSR  OCTUPUS+1
108D:6E 17 10   83          ROR  OCTUPUS
1090:           84 OKQUIKS  EQU  *
1090:A9 00      85          LDA  #0
1092:8D 20 10   86          STA  LENADJ
1095:8D 19 10   87          STA  OCTUPUS+2
1098:8D 1A 10   88          STA  OCTUPUS+3
109B:A5 E0      89          LDA  NOTECOUNT
109D:4A         90          LSR  A
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109D:4A          90          LSR  A
109E:4A          91          LSR  A
109F:4A          92          LSR  A
10A0:4A          93          LSR  A
10A1:09 F0       94          ORA  #$F0
10A3:18          95          CLC
10A4:69 0B       96          ADC  #11
10A6:AA          97          TAX
10A7:8E 0D 10    98          STX  SAVECOUNT
10AA:CE 0D 10    99          DEC  SAVECOUNT
10AD:           100 OCTLOOP EQU  *
10AD:4E 0F 10   101          LSR  Z1COMP+1
10B0:6E 0E 10   102          ROR  Z1COMP
10B3:4E 13 10   103          LSR  Z1WAVE+1
10B6:6E 12 10   104          ROR  Z1WAVE
10B9:CA         105          DEX
10BA:30 1D      106          BMI  OUTOCTLOOP
10BC:EC 0D 10   107          CPX  SAVECOUNT
10BF:F0 EC      108          BEQ  OCTLOOP
10C1:0E 17 10   109          ASL  OCTUPUS
10C4:2E 18 10   110          ROL  OCTUPUS+1
10C7:2E 19 10   111          ROL  OCTUPUS+2
10CA:2E 1A 10   112          ROL  OCTUPUS+3
10CD:AD 20 10   113          LDA  LENADJ
10D0:18         114          CLC
10D1:69 16      115          ADC  #22
10D3:8D 20 10   116          STA  LENADJ
10D6:4C AD 10   117          JMP  OCTLOOP
10D9:           118 OUTOCTLOOP EQU *
10D9:AD 17 10   119          LDA  OCTUPUS
10DC:F0 06      120          BEQ  DOOCT1ER
10DE:38         121          SEC
10DF:ED 20 10   122          SBC  LENADJ
10E2:B0 2B      123          BCS  OKLEN1
10E4:           124 DOOCT1ER EQU *
10E4:AD 18 10   125          LDA  OCTUPUS+1
10E7:08         126          PHP
10E8:CE 18 10   127          DEC  OCTUPUS+1
10EB:28         128          PLP
10EC:F0 02      129          BEQ  OKLEN2
10EE:D0 1F      130          BNE  OKLEN1
10F0:           131 OKLEN2  EQU  *
10F0:AD 19 10   132          LDA  OCTUPUS+2
10F3:08         133          PHP
10F4:CE 19 10   134          DEC  OCTUPUS+2
10F7:28         135          PLP
10F8:D0 15      136          BNE  OKLEN1
10FA:           137 OKLEN3  EQU  *
10FA:AD 1A 10   138          LDA  OCTUPUS+3
10FD:D0 0D      139          BNE  OKOCT3
10FF:A9 00      140          LDA  #0
1101:8D 18 10   141          STA  OCTUPUS+1
1104:8D 19 10   142          STA  OCTUPUS+2
1107:8D 17 10   143          STA  OCTUPUS
110A:F0 03      144          BEQ  OKLEN1
110C:           145 OKOCT3  EQU  *
110C:CE 1A 10   146          DEC  OCTUPUS+3
110F:           147 OKLEN1  EQU  *
110F:EE 18 10   148          INC  OCTUPUS+1
1112:EE 19 10   149          INC  OCTUPUS+2
1115:EE 1A 10   150          INC  OCTUPUS+3
1118:           151 OKSCNT2 EQU  *
1118:           152 ;ADJUST.FOR.LOOP.HOUSEKEEPING.TIME
1118:AD 0E 10   153          LDA  Z1COMP
111B:38         154          SEC
111C:E9 04      155          SBC  #4
111E:8D 0E 10   156          STA  Z1COMP
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111E:8D 0E 10  136          STA  Z1COMP
1121:B0 08     157          BCS  OKSC1
1123:AD 0F 10  158          LDA  Z1COMP+1
1126:F0 03     159          BEQ  OKSC1
1128:CE 0F 10  160          DEC  Z1COMP+1
112B:          161 OKSC1    EQU  *          ;LDA Z2COMP
112B:          162 OKSC2    EQU  *
112B:AD 0E 10  163          LDA  Z1COMP
112E:8D 10 10  164          STA  Z2COMP
1131:AD 0F 10  165          LDA  Z1COMP+1
1134:8D 11 10  166          STA  Z2COMP+1
1137:          167 ;DO.PULSE.WIDTH
1137:          168 ;JMP ENDPWTH
1137:          169 TESTPWOVER EQU *
1137:AD 13 10  170          LDA  Z1WAVE+1
113A:CD 0F 10  171          CMP  Z1COMP+1
113D:90 2B     172          BCC  OKPWC1
113F:D0 0A     173          BNE  PWOVER1
1141:AD 12 10  174          LDA  Z1WAVE
1144:CD 0E 10  175          CMP  Z1COMP
1147:90 1E     176          BCC  OKPWC1
1149:F0 1C     177          BEQ  OKPWC1
114B:AD 12 10  178 PWOVER1 LDA  Z1WAVE
114E:38        179          SEC
114F:ED 0E 10  180          SBC  Z1COMP
1152:8D 12 10  181          STA  Z1WAVE
1155:B0 03     182          BCS  OKZ1SB1
1157:CE 13 10  183          DEC  Z1WAVE+1
115A:AD 13 10  184 OKZ1SB1 LDA  Z1WAVE+1
115D:38        185          SEC
115E:ED 0F 10  186          SBC  Z1COMP+1
1161:8D 13 10  187          STA  Z1WAVE+1
1164:4C 37 11  188          JMP  TESTPWOVER
1167:          189 OKPWC1  EQU  *
1167:AD 0E 10  190          LDA  Z1COMP
116A:38        191          SEC
116B:ED 12 10  192          SBC  Z1WAVE
116E:8D 0E 10  193          STA  Z1COMP
1171:B0 03     194          BCS  OKDOZW
1173:CE 0F 10  195          DEC  Z1COMP+1
1176:AD 0F 10  196 OKDOZW  LDA  Z1COMP+1
1179:38        197          SEC
117A:ED 13 10  198          SBC  Z1WAVE+1
117D:8D 0F 10  199          STA  Z1COMP+1
1180:AD 10 10  200          LDA  Z2COMP
1183:18        201          CLC
1184:6D 12 10  202          ADC  Z1WAVE
1187:90 03     203          BCC  OKDOZW2
1189:EE 11 10  204          INC  Z2COMP+1
118C:8D 10 10  205 OKDOZW2 STA  Z2COMP
118F:AD 11 10  206          LDA  Z2COMP+1
1192:18        207          CLC
1193:6D 13 10  208          ADC  Z1WAVE+1
1196:8D 11 10  209          STA  Z2COMP+1
1199:          210 ;END.DO.PULSE.WIDTH
1199:          211 ENDPWTH EQU  *
1199:EE 0E 10  212          INC  Z1COMP
119C:EE 10 10  213          INC  Z2COMP
119F:EE 0F 10  214          INC  Z1COMP+1

11A2:EE 11 10  215          INC  Z2COMP+1
11A5:AD 01 15  216 DOZSLIDE LDA SLIDFLAG
11A8:F0 28     217          BEQ  TONOZSLIDE
11AA:AD 26 10  218          LDA  FIRSTSLID
11AD:F0 26     219          BEQ  TOSAVSLIDE
11AF:A2 00     220 AMONGSLIDE LDX #0
11B1:AD 00 C0  221          LDA  $C000
11B4:C9 9B     222          CMP  #$9B
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11B4:C9 9B      222          CMP  #$9B
11B6:D0 03      223          BNE  NOTESCSL
11B8:4C 3F 15   224          JMP  NEXTNOTE
11BB:           225 NOTESCSL EQU *
11BB:CE 02 15   226          DEC  SNUM
11BE:AD 02 15   227          LDA  SNUM
11C1:C9 FF      228          CMP  #$FF
11C3:D0 19      229          BNE  OKSLNUM
11C5:CE 03 15   230          DEC  SNUM+1
11C8:AD 03 15   231          LDA  SNUM+1
11CB:C9 FF      232          CMP  #$FF
11CD:D0 0F      233          BNE  OKSLNUM
11CF:4C 3F 15   234          JMP  NEXTNOTE
11D2:4C 75 13   235 TONOZSLIDE JMP NOZSLIDE
11D5:CE 26 10   236 TOSAVSLIDE DEC FIRSTSLID
11D8:8D 25 10   237          STA  OCTMINUS1
11DB:4C 03 13   238          JMP  SAVSLIDE
11DE:AD 04 15   239 OKSLNUM LDA  PUSSY
11E1:8D 17 10   240          STA  OCTUPUS
11E4:AD 05 15   241          LDA  PUSSY+1
11E7:8D 18 10   242          STA  OCTUPUS+1
11EA:AD 06 15   243          LDA  PUSSY+2
11ED:8D 19 10   244          STA  OCTUPUS+2
11F0:AD 07 15   245          LDA  PUSSY+3
11F3:8D 1A 10   246          STA  OCTUPUS+3
11F6:AD 09 15   247          LDA  SAMT
11F9:0D 0A 15   248          ORA  SAMT+1
11FC:D0 12      249          BNE  OKAMTSNZ
11FE:8D 2F 10   250          STA  AMTWORK+1
1201:A2 01      251          LDX  #1
1203:AD 2C 10   252          LDA  AMTSIGN
1206:10 02      253          BPL  STRAMT
1208:A2 FF      254          LDX  #$FF
120A:8E 2E 10   255 STRAMT  STX  AMTWORK
120D:4C 22 12   256          JMP  DIDAMT
1210:AD 0A 15   257 OKAMTSNZ LDA SAMT+1
1213:0D 2C 10   258          ORA  AMTSIGN
1216:2D 2D 10   259          AND  AMTANDOUT
1219:8D 2F 10   260          STA  AMTWORK+1
121C:AD 09 15   261          LDA  SAMT
121F:8D 2E 10   262          STA  AMTWORK
1222:AD 27 10   263 DIDAMT  LDA  OLDCOMP
1225:18         264          CLC
1226:6D 2E 10   265          ADC  AMTWORK
1229:8D 0E 10   266          STA  Z1COMP
122C:AD 28 10   267          LDA  OLDCOMP+1
122F:6D 2F 10   268          ADC  AMTWORK+1
1232:8D 0F 10   269          STA  Z1COMP+1
1235:D0 18      270          BNE  NOSLUNDER
1237:AD 0E 10   271          LDA  Z1COMP
123A:C9 20      272          CMP  #$20
123C:B0 24      273          BCS  LIMALRIGHT
123E:AD 2C 10   274          LDA  AMTSIGN
1241:10 15      275          BPL  SETSLUP
1243:A9 FF      276 SETSLDOWN LDA #$FF
1245:8D 0E 10   277          STA  Z1COMP
1248:A9 07      278          LDA  #$7
124A:8D 0F 10   279          STA  Z1COMP+1
124D:D0 13      280          BNE  LIMALRIGHT
124F:C9 08      281 NOSLUNDER CMP #$8
1251:90 0F      282          BCC  LIMALRIGHT
1253:AD 2C 10   283          LDA  AMTSIGN
1256:30 EB      284          BMI  SETSLDOWN
1258:A9 00      285 SETSLUP LDA  #$0
125A:8D 0F 10   286          STA  Z1COMP+1
125D:A9 1F      287          LDA  #$1F
125F:8D 0E 10   288          STA  Z1COMP
1262:AD 27 10   289 LIMALRIGHT LDA OLDCOMP
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123F:8D 0E 10  288          STA  Z1COMP
1262:AD 27 10  289 LIMALRIGHT LDA OLDCOMP
1265:8D 21 10  290          STA  SLPUTE
1268:AD 28 10  291          LDA  OLDCOMP+1
126B:8D 22 10  292          STA  SLPUTE+1
126E:20 D3 14  293          JSR  GETSLINDEX
1271:8E 24 10  294          STX  SVOLDINDEX
1274:AD 0E 10  295          LDA  Z1COMP
1277:8D 21 10  296          STA  SLPUTE
127A:AD 0F 10  297          LDA  Z1COMP+1
127D:8D 22 10  298          STA  SLPUTE+1
1280:20 D3 14  299          JSR  GETSLINDEX
1283:8A        300          TXA
1284:38        301          SEC
1285:ED 24 10  302          SBC  SVOLDINDEX
1288:8D 21 10  303          STA  SLPUTE
128B:AA        304          TAX
128C:AD 21 10  305          LDA  SLPUTE
128F:10 06     306          BPL  PUTEOK
1291:49 FF     307          EOR  #$FF
1293:18        308          CLC
1294:69 01     309          ADC  #1
1296:AA        310          TAX
1297:AD 21 10  311 PUTEOK   LDA  SLPUTE
129A:30 17     312          BMI  SLLEFT
129C:F0 2C     313          BEQ  SAVSLXX
129E:CA        314 RSLROT   DEX
129F:30 29     315          BMI  SAVSLXX
12A1:4E 1A 10  316          LSR  OCTUPUS+3
12A4:6E 19 10  317          ROR  OCTUPUS+2
12A7:6E 18 10  318          ROR  OCTUPUS+1
12AA:6E 17 10  319          ROR  OCTUPUS
12AD:6E 25 10  320          ROR  OCTMINUS1
12B0:4C 9E 12  321          JMP  RSLROT
12B3:F0 15     322 SLLEFT   BEQ  SAVSLXX
12B5:CA        323 XLLEFT   DEX
12B6:30 12     324          BMI  SAVSLXX
12B8:0E 25 10  325          ASL  OCTMINUS1
12BB:2E 17 10  326          ROL  OCTUPUS
12BE:2E 18 10  327          ROL  OCTUPUS+1
12C1:2E 19 10  328          ROL  OCTUPUS+2
12C4:2E 1A 10  329          ROL  OCTUPUS+3
12C7:4C B5 12  330          JMP  XLLEFT
12CA:AD 17 10  331 SAVSLXX  LDA  OCTUPUS
12CD:8D 04 15  332          STA  PUSSY
12D0:AD 18 10  333          LDA  OCTUPUS+1
12D3:8D 05 15  334          STA  PUSSY+1
12D6:AD 19 10  335          LDA  OCTUPUS+2
12D9:8D 06 15  336          STA  PUSSY+2
12DC:AD 1A 10  337          LDA  OCTUPUS+3
12DF:8D 07 15  338          STA  PUSSY+3
12E2:AD 18 10  339          LDA  OCTUPUS+1
12E5:D0 03     340          BNE  OKSOK1
12E7:EE 18 10  341          INC  OCTUPUS+1
12EA:AD 19 10  342 OKSOK1   LDA  OCTUPUS+2
12ED:D0 03     343          BNE  OKSOK2
12EF:EE 19 10  344          INC  OCTUPUS+2
12F2:AD 1A 10  345 OKSOK2   LDA  OCTUPUS+3
12F5:D0 03     346          BNE  OKSOK3
12F7:EE 1A 10  347          INC  OCTUPUS+3
12FA:AD 2A 10  348 OKSOK3   LDA  STIMEFACT
12FD:8D 16 10  349          STA  TIMEFACT
1300:4C 4D 13  350          JMP  SVDPUSS
1303:AD 0A 15  351 SAVSLIDE LDA  SAMT+1
1306:29 80     352          AND  #$80
1308:F0 0C     353          BEQ  POSIGN

130A:A9 FC     354          LDA  #$FC
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130A:A9 FC     354          LDA  #$FC
130C:8D 2C 10  355          STA  AMTSIGN
130F:A9 FF     356          LDA  #$FF
1311:8D 2D 10  357          STA  AMTANDOUT
1314:D0 08     358          BNE  DONESIGN
1316:8D 2C 10  359 POSIGN   STA  AMTSIGN
1319:A9 03     360          LDA  #$3
131B:8D 2D 10  361          STA  AMTANDOUT
131E:AD 16 10  362 DONESIGN LDA TIMEFACT
1321:8D 2A 10  363          STA  STIMEFACT
1324:A9 00     364          LDA  #$0
1326:8D 29 10  365          STA  STIMEFACT-1
1329:8D 2B 10  366          STA  STIMEFACT+1
132C:AD 17 10  367          LDA  OCTUPUS
132F:8D 04 15  368          STA  PUSSY
1332:AD 18 10  369          LDA  OCTUPUS+1
1335:8D 05 15  370          STA  PUSSY+1
1338:AD 19 10  371          LDA  OCTUPUS+2
133B:8D 06 15  372          STA  PUSSY+2
133E:AD 1A 10  373          LDA  OCTUPUS+3
1341:8D 07 15  374          STA  PUSSY+3
1344:CE 05 15  375          DEC  PUSSY+1
1347:CE 06 15  376          DEC  PUSSY+2
134A:CE 07 15  377          DEC  PUSSY+3
134D:A0 01     378 SVDPUSS LDY  #1
134F:AD 0E 10  379          LDA  Z1COMP
1352:8D 27 10  380          STA  OLDCOMP
1355:F0 05     381          BEQ  WHOOPSVP
1357:8D 10 10  382          STA  Z2COMP
135A:D0 06     383          BNE  NXTSVDPUSS
135C:8C 10 10  384 WHOOPSVP STY Z2COMP
135F:8C 0E 10  385          STY  Z1COMP
1362:AD 0F 10  386 NXTSVDPUSS LDA Z1COMP+1
1365:8D 28 10  387          STA  OLDCOMP+1
1368:F0 05     388          BEQ  NXZSAVEP
136A:8D 11 10  389          STA  Z2COMP+1
136D:D0 06     390          BNE  NOZSLIDE
136F:8C 0F 10  391 NXZSAVEP STY Z1COMP+1
1372:8C 11 10  392          STY  Z2COMP+1
1375:          393 NOZSLIDE EQU *
1375:          394 ;
1375:          395 ;
1375:          396 ;
1375:          397 ;
1375:          398 ;
1375:          399 ;
1375:AE F6 14  400          LDX  RESTER
1378:4C 00 14  401          JMP  NEXTWAVE
007B:          402 ORGP1    EQU  >*
137B:          403          DS   256-ORGP1
1400:          404 NEXTWAVE EQU *
1400:AD 0E 10  405          LDA  Z1COMP
1403:8D 12 10  406          STA  Z1WAVE
1406:AD 10 10  407          LDA  Z2COMP
1409:8D 14 10  408          STA  Z2WAVE
140C:AD 0F 10  409          LDA  Z1COMP+1
140F:8D 13 10  410          STA  Z1WAVE+1
1412:          411 ;18
1412:EA        412          NOP
1413:EA        413          NOP
1414:BD 2F C0  414          LDA  $C02F,X   ;SPEAKER
1417:          415 ;24.CCS
1417:CE 12 10  416 WL1      DEC  Z1WAVE
141A:D0 FB     417          BNE  WL1
141C:CE 13 10  418          DEC  Z1WAVE+1
141F:F0 0B     419          BEQ  OUTWL1
1421:CE 12 10  420          DEC  Z1WAVE
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1421:CE 12 10  420          DEC  Z1WAVE
1424:CE 12 10  421          DEC  Z1WAVE
1427:CE 12 10  422          DEC  Z1WAVE
142A:D0 EB     423          BNE  WL1
142C:          424 OUTWL1   EQU  *
142C:          425 ;7.OUT
142C:AD 11 10  426          LDA  Z2COMP+1
142F:8D 15 10  427          STA  Z2WAVE+1
1432:AD 17 10  428          LDA  OCTUPUS
1435:18        429          CLC
1436:ED 16 10  430          SBC  TIMEFACT
1439:8D 17 10  431          STA  OCTUPUS
143C:B0 0A     432          BCS  WAVEOK
143E:CE 18 10  433          DEC  OCTUPUS+1
1441:D0 05     434          BNE  WAVEOK
1443:CE 19 10  435          DEC  OCTUPUS+2
1446:F0 18     436          BEQ  EXITWAVE
1448:          437 WAVEOK   EQU  *
1448:BD 2F C0  438          LDA  $C02F,X
144B:          439 ;31.CCS
144B:CE 14 10  440 WL2      DEC  Z2WAVE
144E:D0 FB     441          BNE  WL2
1450:CE 15 10  442          DEC  Z2WAVE+1
1453:F0 AB     443          BEQ  NEXTWAVE
1455:CE 14 10  444          DEC  Z2WAVE
1458:CE 14 10  445          DEC  Z2WAVE
145B:CE 14 10  446          DEC  Z2WAVE
145E:D0 EB     447          BNE  WL2
1460:          448 ;7.OUT
1460:          449 WAVEOUT EQU  *
1460:          450 EXITWAVE EQU *
1460:AD 01 15  451          LDA  SLIDFLAG
1463:F0 03     452          BEQ  NONOSLIDE
1465:4C AF 11  453          JMP  AMONGSLIDE
1468:          454 NONOSLIDE EQU *
1468:4C 3F 15  455          JMP  NEXTNOTE
146B:01 02 03  456 OCTAVE   DFB  1,2,3,4,5
146E:04 05
1470:06 07 08  457          DFB  6,7,8,9,10,11,12,13
1473:09 0A 0B
1476:0C 0D
1478:0E        458          DFB  14
1479:80        459 PTBL     DFB  $80
147A:81        460          DFB  $81
147B:82        461          DFB  $82
147C:83        462          DFB  $83
147D:84        463          DFB  $84
147E:85        464          DFB  $85
147F:86        465          DFB  $86
1480:87        466          DFB  $87
1481:88        467          DFB  $88
1482:89        468          DFB  $89
1483:8A        469          DFB  $8A
1484:8B        470          DFB  $8B
1485:8C        471          DFB  $8C
1486:8D        472          DFB  $8D
1487:2E FD     473 NOTETBL  DW   64814
1489:F8 EE     474          DW   61176
148B:8F E1     475          DW   57743
148D:E6 D4     476          DW   54502
148F:F3 C8     477          DW   51443
1491:AC BD     478          DW   48556
1493:06 B3     479          DW   45830
1495:FA A8     480          DW   43258
1497:7E 9F     481          DW   40830
1499:8B 96     482          DW   38539
149B:18 8E     483          DW   36376
```

```
149B:18 8E      483          DW   36376
149D:1E 86      484          DW   34334
149F:97 7E      485          DW   32407
14A1:           486 TIMETBL EQU  *
14A1:2A 00      487          DW   21*2
14A3:2C 00      488          DW   22*2
14A5:2E 00      489          DW   23*2
14A7:30 00      490          DW   24*2
14A9:32 00      491          DW   25*2
14AB:34 00      492          DW   26*2
14AD:36 00      493          DW   27*2
14AF:38 00      494          DW   28*2
14B1:3A 00      495          DW   29*2
14B3:3C 00      496          DW   30*2
14B5:3E 00      497          DW   31*2
14B7:40 00      498          DW   32*2
14B9:42 00      499          DW   33*2
14BB:44 00      500          DW   34*2
14BD:           501 ;
14BD:10 00 20   502 SLCOMPARE DFB $10,0,$20,0,$80,0,0,1,0,2,0,4,0,8,0,$10,0,$20,0,$40,0,$80
14C0:00 80 00
14C3:00 01 00
14C6:02 00 04
14C9:00 08 00
14CC:10 00 20
14CF:00 40 00
14D2:80
14D3:           503 ;
14D3:A2 0B      504 GETSLINDEX LDX #11
14D5:A0 16      505          LDY  #22
14D7:AD 22 10   506 GETSLXL LDA  SLPUTE+1
14DA:D9 BE 14   507          CMP  SLCOMPARE+1,Y
14DD:F0 04      508          BEQ  CHKLOWSL
14DF:B0 0F      509          BCS  GOTSLXP
14E1:90 08      510          BCC  NXTSLXP
14E3:AD 21 10   511 CHKLOWSL LDA SLPUTE
14E6:D9 BD 14   512          CMP  SLCOMPARE,Y
14E9:B0 05      513          BCS  GOTSLXP
14EB:CA         514 NXTSLXP DEX
14EC:88         515          DEY
14ED:88         516          DEY
14EE:D0 E7      517          BNE  GETSLXL
14F0:60         518 GOTSLXP RTS
14F1:           519 ;
14F1:           520 ;
14F1:           521          CHN  ASSCTL
14F1:             1 ;ASSCTL
14F1:00           2 TSUBTBL DFB  0
14F2:             3 PWVALUE DS   2
14F4:             4 PWDELTA DS   2
14F6:             5 RESTER  DS   1
14F7:             6 RTIME   DS   1
14F8:00           7 QUIK    DFB  0
14F9:00           8 NOIFLAG DFB  0
14FA:00           9 NOITIMER DFB 0
14FB:00          10 TIME11  DFB  0
14FC:            11 TIME13  DS   1
14FD:            12 TIME17  DS   1
14FE:            13 SOUNDORG DS  2
1500:00          14 PASS    DFB  0

1501:            15 SLIDFLAG DS  1
1502:00 00       16 SNUM    DFB  0,0
1504:00 00 00    17 PUSSY   DFB  0,0,0,0,0
1507:00 00
1509:00 00 00    18 SAMT    DFB  0,0,0
150C:            19 ;DS $1800-*
150C:AD 10 C0    20          LDA  $C010
```

```
150C:AD 10 C0   20          LDA  $C010
150F:4C AD 15   21          JMP  WAITGO
1512:           22 TUNOTE   DS   1
1513:           23 GOTUNE   EQU  *
1513:           24 ;*********
1513:           25 ;*********
1513:           26 ;)(()(()(()(()(()(
1513:           27 ;).AND.ONE.MORE.THING....
1513:           28 ;).THE.WORD.OF.STORAGE."SUBTBL"
1513:           29 ;).MUST.HOLD.THE.RELOCATABLE
1513:           30 ;).ADDRESS.OF.THE.SUBTABLE,NOW
1513:           31 ;).THIS.IS.FIRST.2.BYTES.OF.
1513:           32 ;).MUSIC!!!!!!!!!
1513:           33 ;)(()(()(()(()(()(
1513:A9 00      34          LDA  #0
1515:8D FE 14   35          STA  SOUNDORG
1518:A9 20      36          LDA  #$20
151A:8D FF 14   37          STA  SOUNDORG+1
151D:           38 ;*********
151D:           39 ;*.CURRENTLY.AT.$2000
151D:           40 ;*********
151D:A9 00      41          LDA  #>TUNE
151F:85 E2      42          STA  Z1COUNT
1521:A9 20      43          LDA  #<TUNE
1523:85 E3      44          STA  Z1COUNT+1
1525:           45 ;*********
1525:           46 ;*.Z1COUNT.IS.WHERE.ABSOLUTE.
1525:           47 ;*.ADDRESS.OF.CURRENT.SOUND.IS
1525:           48 ;*********
1525:           49 GOTUNEX EQU  *
1525:A9 00      50          LDA  #0
1527:8D F2 14   51          STA  PWVALUE
152A:8D F3 14   52          STA  PWVALUE+1
152D:8D F4 14   53          STA  PWDELTA
1530:8D F5 14   54          STA  PWDELTA+1
1533:8D F8 14   55          STA  QUIK
1536:8D 01 15   56          STA  SLIDFLAG
1539:8D 6B 16   57          STA  SLOOPCNT
153C:CE 6B 16   58          DEC  SLOOPCNT
153F:           59 NEXTNOTE EQU *
153F:A0 00      60          LDY  #0
1541:           61 NEXTNGO EQU  *
1541:A9 01      62          LDA  #1
1543:8D F6 14   63          STA  RESTER
1546:EE 1B 10   64          INC  TIME1
1549:AD 1D 10   65          LDA  TIME3
154C:18         66          CLC
154D:69 1F      67          ADC  #31        ;AND #$3
154F:D0 03      68          BNE  OINKT3
1551:EE 1D 10   69          INC  TIME3
1554:AD 1C 10   70 OINKT3   LDA  TIME5
1557:69 05      71          ADC  #5
1559:8D 1C 10   72          STA  TIME5
155C:           73 ;
155C:           74 ;
155C:           75 OINKT5   EQU  *          ;INC.TIME7
155C:AD 1E 10   76          LDA  TIME7
155F:69 07      77          ADC  #7
1561:8D 1E 10   78          STA  TIME7
1564:D0 03      79          BNE  OINKT7
1566:EE 1E 10   80          INC  TIME7
1569:           81 OINKT7   EQU  *
1569:AD FB 14   82          LDA  TIME11
156C:69 0B      83          ADC  #11
```

```
156E:8D FB 14   84          STA  TIME11
1571:AD FC 14   85          LDA  TIME13
1574:69 33      86          ADC  #51
1576:8D FC 14   87          STA  TIME13
1579:AD FD 14   88          LDA  TIME17
157C:E9 11      89          SBC  #17
157E:8D FD 14   90          STA  TIME17
1581:           91 OINKT11  EQU  *
1581:AD F7 14   92          LDA  RTIME
1584:ED 1B 10   93          SBC  TIME1
1587:6D 1D 10   94          ADC  TIME3
158A:ED 1C 10   95          SBC  TIME5
158D:6D 1E 10   96          ADC  TIME7
1590:ED FD 14   97          SBC  TIME17
1593:6D FB 14   98          ADC  TIME11
1596:6D FC 14   99          ADC  TIME13
1599:8D F7 14  100          STA  RTIME
159C:AD 00 C0  101          LDA  $C000
159F:30 11     102          BMI  WAITGOX
15A1:AD F9 14  103          LDA  NOIFLAG
15A4:F0 03     104          BEQ  OKTINY
15A6:4C D8 17  105          JMP  DONOISER
15A9:          106 OKTINY   EQU  *
15A9:B1 E2     107          LDA  (Z1COUNT),Y
15AB:D0 53     108          BNE  NORETS
15AD:          109 WAITGO   EQU  *
15AD:AD 00 C0  110          LDA  $C000
15B0:10 FB     111          BPL  WAITGO
15B2:          112 WAITGOX  EQU  *
15B2:48        113          PHA
15B3:AD 10 C0  114          LDA  $C010
15B6:68        115          PLA
15B7:38        116          SEC
15B8:E9 81     117          SBC  #$81
15BA:90 F1     118          BCC  WAITGO
15BC:C9 1A     119          CMP  #26
15BE:90 0C     120          BCC  DOKEY
15C0:E9 40     121          SBC  #$40
15C2:C9 19     122          CMP  #25
15C4:D0 01     123          BNE  OKKEY1
15C6:60        124          RTS
15C7:90 03     125 OKKEY1   BCC  DOKEY
15C9:          126 ;LDA $C010
15C9:4C AD 15  127          JMP  WAITGO
15CC:0A        128 DOKEY    ASL  A
15CD:AA        129          TAX
15CE:BD 00 1F  130          LDA  SOUNDS,X
15D1:85 E2     131          STA  Z1COUNT
15D3:BD 01 1F  132          LDA  SOUNDS+1,X
15D6:85 E3     133          STA  Z1COUNT+1
15D8:A0 00     134          LDY  #0
15DA:B1 E2     135          LDA  (Z1COUNT),Y
15DC:8D 51 18  136          STA  SUBTBL
15DF:C8        137          INY
15E0:B1 E2     138          LDA  (Z1COUNT),Y
15E2:8D 52 18  139          STA  SUBTBL+1
15E5:A5 E2     140          LDA  Z1COUNT
15E7:18        141          CLC
15E8:69 02     142          ADC  #2
15EA:90 02     143          BCC  OKZ1AOK
15EC:E6 E3     144          INC  Z1COUNT+1
15EE:85 E2     145 OKZ1AOK  STA  Z1COUNT
15F0:A5 E2     146          LDA  Z1COUNT
15F2:8D FE 14  147          STA  SOUNDORG
15F5:A5 E3     148          LDA  Z1COUNT+1
15F7:8D FF 14  149          STA  SOUNDORG+1
15FA:A0 00     150          LDY  #0
```

```
15F7:8D FF 14  149          STA  SOUNDORG+1
15FA:4C 20 15  150          JMP  #0
15FF:          152 ;******
15FF:          153 ;ALSO.NEED.RELOCATE.SOUNDS
15FF:          154 ;AND.SUBTBL
15FF:          155 ;******
15FF:          156 ;
15FF:60        157          RTS
1600:30 53     158 NORETS   BMI  DONOTES
1602:          159 NEXTBYT  EQU  *
1602:E6 E2     160          INC  Z1COUNT
1604:D0 02     161          BNE  OKBYT
1606:E6 E3     162          INC  Z1COUNT+1
1608:          163 OKBYT    EQU  *
1608:8D 00 15  164          STA  PASS
160B:C9 30     165          CMP  #$30
160D:B0 19     166          BCS  NEXTGOON
160F:C9 20     167          CMP  #$20
1611:90 04     168          BCC  CHKEMA
1613:A9 0B     169          LDA  #11
1615:D0 00     170          BNE  DOEMA
1617:          171 CHKEMA   EQU  *
1617:          172 ;CMP #12
1617:          173 ;BCS NEXTNGO
1617:          174 DOEMA    EQU  *
1617:0A        175          ASL  A
```

```
1618:AA        176          TAX
1619:BD 2B 16  177          LDA  SUBS,X
161C:8D 26 16  178          STA  GODOIT+1
161F:BD 2C 16  179          LDA  SUBS+1,X
1622:8D 27 16  180          STA  GODOIT+2
1625:20 41 15  181 GODOIT   JSR  NEXTNGO
1628:          182 NEXTGOON EQU *
1628:4C 3F 15  183          JMP  NEXTNOTE
162B:00 00     184 SUBS     DW   0
162D:6C 16     185       1 DW   SLOOP
162F:AB 16     186       2 DW   SSETPW
1631:C3 16     187       3 DW   SSETPWD
1633:48 17     188       4 DW   SBOTHPW
1635:39 17     189       5 DW   SCLEARPW
1637:DB 16     190       6 DW   SDOPWD
1639:48 16     191       7 DW   SREST
163B:50 17     192       8 DW   SROTS
163D:95 17     193       9 DW   SRETS
163F:A6 17     194       A DW   STOGLQUIK
1641:09 18     195       B DW   SWHITE
1643:29 18     196       C DW   SSLIDE  - D: DW SRSLIDE
1645:4C 41 15  197          JMP  NEXTNGO
1648:A9 00     198 SREST    LDA  #0
164A:8D F6 14  199          STA  RESTER
164D:68        200          PLA
164E:68        201          PLA
164F:A9 C0     202          LDA  #$C0
1651:85 E0     203          STA  NOTECOUNT
1653:D0 08     204          BNE  OKB2
1655:          205 DONOTES  EQU  *
1655:85 E0     206          STA  NOTECOUNT
1657:E6 E2     207          INC  Z1COUNT
1659:D0 02     208          BNE  OKB2
165B:E6 E3     209          INC  Z1COUNT+1
165D:B1 E2     210 OKB2     LDA  (Z1COUNT),Y
165F:8D 16 10  211          STA  TIMEFACT
1662:E6 E2     212          INC  Z1COUNT
1664:D0 02     213          BNE  OKB3
```

```
1662:E6 E2      212          INC  Z1COUNT
1664:D0 02      213          BNE  OKB3
1666:E6 E3      214          INC  Z1COUNT+1
1668:           215 OKB3     EQU  *
1668:4C 49 10   216          JMP  GONOTE    ;GOES.TO.PLAY.IT
166B:           217 ;
166B:FF         218 SLOOPCNT DFB $FF
166C:           219 SLOOP    EQU  *
166C:AD 6B 16   220          LDA  SLOOPCNT
166F:30 26      221          BMI  STARTLOOP
1671:CE 6B 16   222          DEC  SLOOPCNT
1674:30 29      223          BMI  ENDLOOP
1676:           224 DOMYLOOP EQU  *
1676:E6 E2      225          INC  Z1COUNT
1678:D0 02      226          BNE  OKZ11
167A:E6 E3      227          INC  Z1COUNT+1
167C:           228 OKZ11    EQU  *
167C:B1 E2      229          LDA  (Z1COUNT),Y
167E:48         230          PHA
167F:C8         231          INY
1680:B1 E2      232 OKZ12    LDA  (Z1COUNT),Y
1682:85 E3      233          STA  Z1COUNT+1
1684:68         234          PLA
1685:85 E2      235          STA  Z1COUNT
1687:           236 ;********
1687:           237 ;*.USE.SOUNDORG.TO.COMPUTE
1687:           238 ;*.ABSOLUTE.ADDRESS.OF.LOOP.FROM
1687:           239 ;*.RELATIVE.ADDRESS.
1687:           240 ;********
1687:AD FE 14   241          LDA  SOUNDORG
168A:18         242          CLC
168B:65 E2      243          ADC  Z1COUNT
168D:85 E2      244          STA  Z1COUNT
168F:AD FF 14   245 OKZ1NL   LDA  SOUNDORG+1
1692:65 E3      246          ADC  Z1COUNT+1
1694:85 E3      247          STA  Z1COUNT+1
1696:60         248          RTS
1697:B1 E2      249 STARTLOOP LDA (Z1COUNT),Y
1699:8D 6B 16   250          STA  SLOOPCNT
169C:4C 76 16   251          JMP  DOMYLOOP
169F:A5 E2      252 ENDLOOP  LDA  Z1COUNT
16A1:18         253          CLC
16A2:69 03      254          ADC  #3
16A4:90 02      255          BCC  OKENDL
16A6:E6 E3      256          INC  Z1COUNT+1
16A8:85 E2      257 OKENDL   STA  Z1COUNT
16AA:60         258          RTS
16AB:           259 SSETPW   EQU  *
16AB:B1 E2      260          LDA  (Z1COUNT),Y
16AD:8D F2 14   261          STA  PWVALUE
16B0:C8         262          INY
16B1:B1 E2      263          LDA  (Z1COUNT),Y
16B3:8D F3 14   264          STA  PWVALUE+1
16B6:A5 E2      265          LDA  Z1COUNT
16B8:18         266          CLC
16B9:69 02      267          ADC  #2
16BB:90 02      268          BCC  OKZ13
16BD:E6 E3      269          INC  Z1COUNT+1
16BF:85 E2      270 OKZ13    STA  Z1COUNT
16C1:88         271          DEY
16C2:60         272          RTS
16C3:           273 SSETPWD  EQU  *
16C3:B1 E2      274          LDA  (Z1COUNT),Y
16C5:8D F4 14   275          STA  PWDELTA
16C8:C8         276          INY
16C9:B1 E2      277          LDA  (Z1COUNT),Y
16CB:8D F5 14   278          STA  PWDELTA+1
16CE:A5 E2      279          LDA  Z1COUNT
```

```
16CE:A5 E2      279          LDA  Z1COUNT
16D0:18         280          CLC
16D1:69 02      281          ADC  #2
16D3:90 02      282          BCC  OKZ14
16D5:E6 E3      283          INC  Z1COUNT+1
16D7:85 E2      284 OKZ14    STA  Z1COUNT
16D9:88         285          DEY
16DA:60         286          RTS
16DB:           287 SDOPWD   EQU  *
16DB:AD F3 14   288          LDA  PWVALUE+1
16DE:85 E5      289          STA  TEMPERARY+1
16E0:AD F2 14   290          LDA  PWVALUE
16E3:18         291          CLC
16E4:6D F4 14   292          ADC  PWDELTA
16E7:85 E4      293          STA  TEMPERARY
16E9:AD F5 14   294          LDA  PWDELTA+1
16EC:30 0C      295          BMI  CHKPDNS
16EE:90 14      296          BCC  OK1PWDO
16F0:A5 E5      297          LDA  TEMPERARY+1
16F2:69 00      298          ADC  #0
16F4:B0 2A      299          BCS  NEGPWD
16F6:85 E5      300          STA  TEMPERARY+1
16F8:90 0A      301          BCC  OK1PWDO
16FA:B0 08      302 CHKPDNS  BCS  OK1PWDO
16FC:A5 E5      303          LDA  TEMPERARY+1
16FE:E9 00      304          SBC  #0
1700:90 1E      305          BCC  NEGPWD
1702:85 E5      306          STA  TEMPERARY+1


1704:           307 OK1PWDO  EQU  *
1704:A5 E5      308          LDA  TEMPERARY+1
1706:18         309          CLC
1707:6D F5 14   310          ADC  PWDELTA+1
170A:85 E5      311          STA  TEMPERARY+1
170C:AD F5 14   312          LDA  PWDELTA+1
170F:30 0D      313          BMI  DOCHDOWN
1711:B0 0D      314          BCS  NEGPWD
1713:           315 NONEGPWD EQU  *
1713:A5 E4      316          LDA  TEMPERARY
1715:8D F2 14   317          STA  PWVALUE
1718:A5 E5      318          LDA  TEMPERARY+1
171A:8D F3 14   319          STA  PWVALUE+1
171D:60         320          RTS
171E:B0 F3      321 DOCHDOWN BCS  NONEGPWD
1720:           322 NEGPWD   EQU  *
1720:AD F5 14   323          LDA  PWDELTA+1
1723:49 FF      324          EOR  #$FF
1725:8D F5 14   325          STA  PWDELTA+1
1728:AD F4 14   326          LDA  PWDELTA
172B:49 FF      327          EOR  #$FF
172D:8D F4 14   328          STA  PWDELTA
1730:EE F4 14   329          INC  PWDELTA
1733:D0 03      330          BNE  DUNGNEG
1735:EE F5 14   331          INC  PWDELTA+1
1738:           332 DUNGNEG  EQU  *
1738:60         333          RTS
1739:A9 00      334 SCLEARPW LDA  #0
173B:8D F4 14   335          STA  PWDELTA
173E:8D F5 14   336          STA  PWDELTA+1
1741:8D F2 14   337          STA  PWVALUE
1744:8D F3 14   338          STA  PWVALUE+1
1747:60         339          RTS
1748:20 AB 16   340 SBOTHPW  JSR  SSETPW
174B:4C C3 16   341          JMP  SSETPWD
174E:           342 HOLDPOT  DS   2
```

```
174B:4C C3 16  341          JMP  SSETPWD
174E:          342 HOLDROT DS   2
1750:          343 SROTS   EQU  *
1750:          344 ;
1750:          345 ;
1750:          346 ;
1750:AD 51 18  347          LDA  SUBTBL
1753:85 E4     348          STA  TEMPERARY
1755:AD 52 18  349          LDA  SUBTBL+1
1758:85 E5     350          STA  TEMPERARY+1
175A:B1 E2     351          LDA  (Z1COUNT),Y
175C:48        352          PHA
175D:E6 E2     353          INC  Z1COUNT
175F:D0 02     354          BNE  OKIZS
1761:E6 E3     355          INC  Z1COUNT+1
1763:A5 E2     356 OKIZS    LDA  Z1COUNT
1765:8D 4E 17  357          STA  HOLDROT
1768:A5 E3     358          LDA  Z1COUNT+1
176A:8D 4F 17  359          STA  HOLDROT+1
176D:68        360          PLA
176E:2D F7 14  361          AND  RTIME
1771:18        362          CLC
1772:71 E2     363          ADC  (Z1COUNT),Y
1774:0A        364          ASL  A
1775:90 02     365          BCC  PGSB1
1777:E6 E5     366          INC  TEMPERARY+1
1779:          367 PGSB1    EQU  *
1779:A8        368          TAY
177A:B1 E4     369          LDA  (TEMPERARY),Y
177C:85 E2     370          STA  Z1COUNT
```

```
177E:C8        371          INY
177F:B1 E4     372          LDA  (TEMPERARY),Y
1781:85 E3     373          STA  Z1COUNT+1
1783:          374 ;*******
1783:          375 ;*.USE.SOUNDORG.AGAIN.FOR
1783:          376 ;*.SUBROUTINE.TABLE
1783:          377 ;*******
1783:AD FE 14  378          LDA  SOUNDORG
1786:18        379          CLC
1787:65 E2     380          ADC  Z1COUNT
1789:85 E2     381          STA  Z1COUNT
178B:AD FF 14  382          LDA  SOUNDORG+1
178E:65 E3     383          ADC  Z1COUNT+1
1790:85 E3     384          STA  Z1COUNT+1
1792:A0 00     385          LDY  #0
1794:60        386          RTS
1795:          387 SRETS    EQU  *
1795:AD 4E 17  388          LDA  HOLDROT
1798:85 E2     389          STA  Z1COUNT
179A:AD 4F 17  390          LDA  HOLDROT+1
179D:85 E3     391          STA  Z1COUNT+1
179F:E6 E2     392          INC  Z1COUNT
17A1:D0 02     393          BNE  HROK1
17A3:E6 E3     394          INC  Z1COUNT+1
17A5:          395 HROK1    EQU  *
17A5:60        396          RTS
17A6:AD F8 14  397 STOGLQUIK LDA QUIK
17A9:49 FF     398          EOR  #$FF
17AB:8D F8 14  399          STA  QUIK
17AE:60        400          RTS
17AF:A9 00     401 EXITGOER LDA #0
```

```
17AF:A9 00      401 EXITGOER LDA #0
17B1:8D F9 14   402          STA  NOIFLAG
17B4:60         403          RTS
17B5:           404 OTHRNOSE EQU *
17B5:CE FA 14   405 CKNSTOP DEC  NOITIMER
17B8:F0 F5      406          BEQ  EXITGOER
17BA:AD 30 C0   407          LDA  SPEAKER
17BD:A9 1F      408 NEWNOISE LDA #31
17BF:6D 1D 10   409          ADC  TIME3
17C2:8D 1D 10   410          STA  TIME3
17C5:A9 11      411          LDA  #17
17C7:ED FD 14   412          SBC  TIME17
17CA:8D FD 14   413          STA  TIME17
17CD:A9 33      414          LDA  #51
17CF:6D FC 14   415          ADC  TIME13
17D2:8D FC 14   416          STA  TIME13
17D5:AD F7 14   417          LDA  RTIME
17D8:           418 DONOISER EQU *
17D8:           419 NXTNOISE EQU *
17D8:4A         420          LSR  A
17D9:4A         421          LSR  A
17DA:4A         422          LSR  A
17DB:D0 02      423          BNE  OKRTY
17DD:A9 01      424          LDA  #1
17DF:A8         425 OKRTY    TAY
17E0:AD 00 15   426          LDA  PASS
17E3:AE 30 C0   427          LDX  SPEAKER
17E6:AA         428 DRIVE    TAX
17E7:CA         429 DODEX    DEX
17E8:10 FD      430          BPL  DODEX
17EA:88         431          DEY
17EB:D0 F9      432          BNE  DRIVE
17ED:EE 1B 10   433          INC  TIME1
17F0:AD 1B 10   434          LDA  TIME1
17F3:29 07      435          AND  #7
17F5:F0 BE      436          BEQ  OTHRNOSE
17F7:AD F7 14   437          LDA  RTIME
17FA:6D 1D 10   438          ADC  TIME3
17FD:ED FC 14   439          SBC  TIME13
1800:6D FD 14   440          ADC  TIME17
1803:8D F7 14   441          STA  RTIME
1806:4C D8 17   442          JMP  DONOISER
1809:           443 SWHITE   EQU  *
1809:B1 E2      444          LDA  (Z1COUNT),Y
180B:E6 E2      445          INC  Z1COUNT
180D:D0 02      446          BNE  ZWHZ
180F:E6 E3      447          INC  Z1COUNT+1
1811:           448 ZWHZ     EQU  *
1811:8D FA 14   449          STA  NOITIMER
1814:A9 FF      450          LDA  #$FF
1816:8D F9 14   451          STA  NOIFLAG
1819:68         452          PLA
181A:68         453          PLA
181B:AD 00 15   454          LDA  PASS
181E:29 0F      455          AND  #$F
1820:0A         456          ASL  A
1821:0A         457          ASL  A
1822:0A         458          ASL  A
1823:8D 00 15   459          STA  PASS
1826:4C D8 17   460          JMP  NXTNOISE
1829:           461 SSLIDE   EQU  *
1829:A9 FF      462          LDA  #$FF
182B:8D 01 15   463          STA  SLIDFLAG
182E:B1 E2      464          LDA  (Z1COUNT),Y
1830:8D 02 15   465          STA  SNUM
1833:C8         466          INY
1834:B1 E2      467          LDA  (Z1COUNT),Y
1836:8D 03 15   468          STA  SNUM+1
```

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1834:B1 E2      467          LDA  (Z1COUNT),Y
1836:8D 03 15   468          STA  SNUM+1
1839:C8         469          INY
183A:B1 E2      470          LDA  (Z1COUNT),Y
183C:8D 09 15   471          STA  SAMT
183F:C8         472          INY
1840:B1 E2      473          LDA  (Z1COUNT),Y
1842:8D 0A 15   474          STA  SAMT+1
1845:A5 E2      475          LDA  Z1COUNT
1847:18         476          CLC
1848:69 04      477          ADC  #4
184A:85 E2      478          STA  Z1COUNT
184C:90 02      479          BCC  OKZ1SL1
184E:E6 E3      480          INC  Z1COUNT+1
1850:60         481 OKZ1SL1  RTS
1851:           482 ;
1851:           483 ;
1851:00 2F      484 SUBTBL   DW   $2F00
1853:           485          DS   $1F00-*
1F00:FE 1F      486 SOUNDS   DW   $1FFE
2000:           487 TUNE     EQU  $2000
1F02:           488          DS   $1FFE-*
1FFE:00 2F      489          DW   $2F00
2000:           490 ;
```

— SRSLIDE LDA #0
STA SLIDEWAY
RTS

*** SUCCESSFUL ASSEMBLY: NO ERRORS

```
 11AF AMONGSLIDE     102D AMTANDOUT     102C AMTSIGN       102E AMTWORK
 1030 APPLEGO        1617 CHKEMA        14E3 CHKLOWSL      16FA CHKPDNS
?17B5 CKNSTOP        1222 DIDAMT        1079 DIDPWVAL      171E DOCHDOWN
 17E7 DODEX          1617 DOEMA         15CC DOKEY         1676 DOMYLOOP
 131E DONESIGN       17D8 DONOISER      1655 DONOTES       10E4 DOOCT1ER
 106D DOWIDTH       ?11A5 DOZSLIDE      17E6 DRIVE         1738 DUNGNEG
 169F ENDLOOP       ?1199 ENDPWTH       17AF EXITGOER      1460 EXITWAVE
 1026 FIRSTSLID      14D3 GETSLINDEX    14D7 GETSLXL       1625 GODOIT
 1049 GONOTE         14F0 GOTSLXP      ?1513 GOTUNE        1525 GOTUNEX
 174E HOLDROT        17A5 HROK1         1006 INIT         ?1602 NEXTBYT
 1262 LIMALRIGHT     1720 NEGPWD       ?17BD NEWNOISE      1400 NEXTWAVE
 1628 NEXTGOON       1541 NEXTNGO       153F NEXTNOTE      1468 NONOSLIDE
 14F9 NOIFLAG        14FA NOITIMER      1713 NONEGPWD      11BB NOTESCSL
 1600 NORETS         124F NOSLUNDER       E0 NOTECOUNT     1487 NOTETBL
 103B NOUT           1375 NOZSLIDE      17D8 NXTNOISE      1049 NXTNOTE
 14EB NXTSLXP        1362 NXTSVDPUSS    136F NXZSAVEP     ?146B OCTAVE
 10AD OCTLOOP        1025 OCTMINUS1     1017 OCTUPUS      ?1581 OINKT11
 1554 OINKT3        ?155C OINKT5        1569 OINKT7        1704 OK1PWDO
 1210 OKAMTSNZ       165D OKB2          1668 OKB3          1608 OKBYT
 1176 OKDOZW         118C OKDOZW2       16A8 OKENDL        1763 OKIZS
 15C7 OKKEY1         110F OKLEN1        10F0 OKLEN2       ?10FA OKLEN3
 110C OKOCT3         1167 OKPWC1        1090 OKQUIKS       17DF OKRTY
 112B OKSC1         ?112B OKSC2        ?1118 OKSCNT2       11DE OKSLNUM
 12EA OKSOK1         12F2 OKSOK2        12FA OKSOK3        15A9 OKTINY
 167C OKZ11         ?1680 OKZ12         16BF OKZ13         16D7 OKZ14
 15EE OKZ1AOK       ?168F OKZ1NL        115A OKZ1SB1       1850 OKZ1SL1
 1027 OLDCOMP         7B ORGP1          17B5 OTHRNOSE      10D9 OUTOCTLOOP
 142C OUTWL1         1500 PASS          1779 PGSB1         1316 POSIGN
?1479 PTBL           1504 PUSSY         1297 PUTEOK
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14F4 PWDELTA	114B PWOVER1	14F2 PWVALUE	14F8 QUIK
14F6 RESTER	129E RSLROT	14F7 RTIME	1509 SAMT
100D SAVECOUNT	1303 SAVSLIDE	12CA SAVSLXX	1748 SBOTHPW
1739 SCLEARPW	16DB SDOPWD	1243 SETSLDOWN	1258 SETSLUP
14BD SLCOMPARE	1501 SLIDFLAG	12B3 SLLEFT	166B SLOOPCNT
166C SLOOP	1021 SLPUTE	1502 SNUM	14FE SOUNDORG
1F00 SOUNDS	C030 SPEAKER	1648 SREST	1795 SRETS
1750 SROTS	16AB SSETPW	16C3 SSETPWD	1829 SSLIDE
1697 STARTLOOP	102A STIMEFACT	17A6 STOGLQUIK	120A STRAMT
162B SUBS	1851 SUBTBL	134D SVDPUSS	1024 SVOLDINDEX
1809 SWHITE	?101F TEMP	E4 TEMPERARY	1137 TESTPWOVER
101B TIME1	14FB TIME11	14FC TIME13	14FD TIME17
101D TIME3	101C TIME5	101E TIME7	1016 TIMEFACT
14A1 TIMETBL	11D2 TONOZSLIDE	11D5 TOSAVSLIDE	?14F1 TSUBTBL
2000 TUNE	?1512 TUNOTE	15AD WAITGO	15B2 WAITGOX
1448 WAVEOK	?1460 WAVEOUT	135C WHOOPSVP	1417 WL1
144B WL2	12B5 XLLEFT	100E Z1COMP	E2 Z1COUNT
1012 Z1WAVE	1010 Z2COMP	1014 Z2WAVE	?103E ZG01
1811 ZWHZ			

7B ORGP1	E0 NOTECOUNT	E2 Z1COUNT	E4 TEMPERARY
1006 INIT	100D SAVECOUNT	100E Z1COMP	1010 Z2COMP
1012 Z1WAVE	1014 Z2WAVE	1016 TIMEFACT	1017 OCTUPUS
101B TIME1	101C TIME5	101D TIME3	101E TIME7
?101F TEMP	1020 LENADJ	1021 SLPUTE	1024 SVOLDINDEX
1025 OCTMINUS1	1026 FIRSTSLID	1027 OLDCOMP	102A STIMEFACT
102C AMTSIGN	102D AMTANDOUT	102E AMTWORK	1030 APPLEGO
103B NOUT	?103E ZG01	1049 GONOTE	1049 NXTNOTE
106D DOWIDTH	1079 DIDPWVAL	1090 OKQUIKS	10AD OCTLOOP
10D9 OUTOCTLOOP	10E4 DOOCT1ER	10F0 OKLEN2	?10FA OKLEN3
110C OKOCT3	110F OKLEN1	?1118 OKSCNT2	?112B OKSC2
112B OKSC1	1137 TESTPWOVER	114B PWOVER1	115A OKZ1SB1
1167 OKPWC1	1176 OKDOZW	118C OKDOZW2	?1199 ENDPWTH
?11A5 DOZSLIDE	11AF AMONGSLIDE	11BB NOTESCSL	11D2 TONOZSLIDE
11D5 TOSAVSLIDE	11DE OKSLNUM	120A STRAMT	1210 OKAMTSNZ
1222 DIDAMT	1243 SETSLDOWN	124F NOSLUNDER	1258 SETSLUP
1262 LIMALRIGHT	1297 PUTEOK	129E RSLROT	12B3 SLLEFT
12B5 XLLEFT	12CA SAVSLXX	12EA OKSOK1	12F2 OKSOK2
12FA OKSOK3	1303 SAVSLIDE	1316 POSIGN	131E DONESIGN
134D SVDPUSS	135C WHOOPSVP	1362 NXTSVDPUSS	136F NXZSAVEP
1375 NOZSLIDE	1400 NEXTWAVE	1417 WL1	142C OUTWL1
1448 WAVEOK	144B WL2	1460 EXITWAVE	?1460 WAVEOUT
1468 NONOSLIDE	?146B OCTAVE	?1479 PTBL	1487 NOTETBL
14A1 TIMETBL	14BD SLCOMPARE	14D3 GETSLINDEX	14D7 GETSLXL
14E3 CHKLOWSL	14EB NXTSLXP	14F0 GOTSLXP	?14F1 TSUBTBL
14F2 PWVALUE	14F4 PWDELTA	14F6 RESTER	14F7 RTIME
14F8 QUIK	14F9 NOIFLAG	14FA NOITIMER	14FB TIME11
14FC TIME13	14FD TIME17	14FE SOUNDORG	1500 PASS
1501 SLIDFLAG	1502 SNUM	1504 PUSSY	1508 SAMT

14FC TIME13	14FD TIME17	14FE SOUNDORG	1500 PAUS
1501 SLIDFLAG	1502 SNUM	1504 PUSSY	1509 SAMT
?1512 TUNOTE	?1513 GOTUNE	1525 GOTUNEX	153F NEXTNOTE
1541 NEXTNGO	1554 OINKT3	?155C OINKT5	1569 OINKT7
?1581 OINKT11	15A9 OKTINY	15AD WAITGO	15B2 WAITGOX
15C7 OKKEY1	15CC DOKEY	15EE OKZ1AOK	1600 NORETS
?1602 NEXTBYT	1608 OKBYT	1617 DOEMA	1617 CHKEMA
1625 GODOIT	1628 NEXTGOON	162B SUBS	1648 SREST
1655 DONOTES	165D OKB2	166B OKB3	166B SLOOPCNT
166C SLOOP	1676 DOMYLOOP	167C OKZ11	?1680 OKZ12
?168F OKZ1NL	1697 STARTLOOP	169F ENDLOOP	16A8 OKENDL
16AB SSETPW	16BF OKZ13	16C3 SSETPWD	16D7 OKZ14
16DB SDOPWD	16FA CHKPDNS	1704 OK1PWDO	1713 NONEGPWD
171E DOCHDOWN	1720 NEGPWD	1738 DUNGNEG	1739 SCLEARPW
1748 SBOTHPW	174E HOLDROT	1750 SROTS	1763 OKIZS
1779 PGSB1	1795 SRETS	17A5 HROK1	17A6 STOGLQUIK
17AF EXITGOER	17B5 OTHRNOSE	?17B5 CKNSTOP	?17BD NEWNOISE
17D8 DONOISER	17D8 NXTNOISE	17DF OKRTY	17E6 DRIVE
17E7 DODEX	1809 SWHITE	1811 ZWHZ	1829 SSLIDE
1850 OKZ1SL1	1851 SUBTBL	1F00 SOUNDS	2000 TUNE
C030 SPEAKER			