

Music Decomposer
By Richard C. Degler
(C) 1983

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5  DEFAULT ;CLEAR ;PL.;NT=0;N=1
6  PRINT ;PRINT " ON-BOARD MUSIC DECOMPOSER -
7  PRINT ;PRINT ;INPUT " INPUT STARTING ADDRESS"A
8  P=0;PL.%(A)
10 FOR A=ATO A+888;GOSUB 15;NEXT A;GOTO 7
15 PRINT ;PRINT #6,A,,
20 D=%(A)↑255
30 IF D>127GOTO 39
31 PRINT "DUR=",#4,D,;IF N<1RETURN
32 FOR B=ATO A+N-1;PRINT B.%(B),1),;NEXT B;A=A+N;RETURN
39 IF D>135GOTO 50
40 B=D↑7;GOSUB 41;RETURN
41 A=A+1;D=%(A)↑255;IF B=0PRINT "MO=",
42 IF B=1PRINT "TA=",
43 IF B=2PRINT "TE=",
44 IF B=3PRINT "TC=",
45 IF B=4D=Dc64;PRINT "VF=",#4,RM," / VR=",D,;RETURN
46 IF B=5D=Dc16;PRINT "VC=",#4,RM," / NM=",D,;RETURN
47 IF B=6D=Dc16;PRINT "VA=",#4,RM," / VB=",D,;RETURN
48 IF B=7PRINT "NV=",
49 PRINT #6,D,;RETURN
50 IF D>143GOTO 60
51 FOR B=7TO 0STEP -1;CX=B-53;GOSUB 41;IF BPRINT
52 NEXT B;RETURN
60 IF D>175GOTO 71
61 IF D#144PRINT "PUSH",#3,D↑15+1," ONTO THE MUSIC STACK",;RETURN
62 PRINT "VOICES--a",;A=A+1;D=%(A)↑255;CX=-14;N=0;IF D↑128N=1;CX=CX+24
63 IF D↑64PRINT "TA",
64 IF D↑32N=N+1;CX=CX+24
65 IF D↑16PRINT "TB",
66 IF D↑8N=N+1;CX=CX+24
67 IF D↑4PRINT "TC",
68 IF D↑2N=N+1;CX=CX+24;PRINT "VR",
69 IF D↑1N=N+1;CX=CX+24;PRINT "NV",
70 RETURN
71 IF D>191GOTO 80
72 PRINT "VOLUMES: ",;D=%(A+1)↑255c16;PRINT #3,"VA=",RM,,,"VB=",D,,,";D=%(A+2)
↑255c16;PRINT #3,"VC=",RM,,,"NM=",D,
73 A=A+2;RETURN
80 IF D>192GOTO 90
81 PRINT "DECREMENT STACK + JUMP TO",#6,%(A+1)," IF NOT 0",;A=A+3;RETURN
90 IF D>195GOTO 100
91 IF D#195PRINT "HEY! DON'T YOU MEAN 195?
92 PRINT "JUMP TO ",#5,%(A+1);A=A+999;RETURN
100 IF D>207GOTO 110
101 IF D=201PRINT "RETURN ";A=A+999;RETURN
102 IF D#205PRINT "HEY! DON'T YOU MEAN 205?
103 PRINT "CALL MUSIC AT",#6,%(A+1),;A=A+2;RETURN
110 IF D>223GOTO 120
111 PRINT "CALL FORWARD +",#4,D↑15,;RETURN
120 IF D>224GOTO 130
121 PRINT "TOGGLE TO ",;IF PPRINT "STACCATO",;P=0;RETURN
122 PRINT "LAGATO",;P=1;RETURN
130 IF D=240PRINT "QUIET / QUIT";A=A+999;RETURN
140 A=A+1;PRINT "REST",#4,%(A)↑255;RETURN
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This program is written for Blue Ram BASIC 1.1.

It changes MUSIC STRINGS from cartridge format to AstroBASIC format.

When typing this program into BASIC, remember this legend:

a = -> (Right Arrow)
b = Multiply Sign
c = Divide Sign

There are no instructions for this program, though the author does give his thoughts in a few postings on the Bally Alley Yahoo Group, which are compiled here:

Instructions? No. And I haven't seen that code in over 20 years.

This works as a regular program, it was on an EPROM so it didn't have to be reloaded.

It should keep going until it runs into a QUIET command and then either loop back to the prompt or not. Enter a zero to bail out?

I changed the subject to "Music Decomposer" since this was only a part of "Decomposer" and only worked on system BMUSIC scores like those in #6001 and Scot Norris' SONGS (no one downloaded the disassembly of this besides Adam?) Not George Moses' BEATLES music.

Some onboard music scores for testing would be: 8099 dec for "Home on the Range", 8113 for "Taps", and 8129 for "Funeral". They all call 8093 but it keeps listing past the return to the end of "Home on the Range". Also try 8155 for "Gunshot".