

Listing 1

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10 ' Frequency Generator
20 ' By Jim 14/3/1988
30 addr=&8000:MEMORY &7FFF:lin=990
40 sum=0:FOR k=1 TO 16:READ a$:IF a$="END" THEN 50 ELSE a=VAL("&"
+a$):POKE addr,a:sum=sum+a:addr=addr+1:NEXT:lin=lin+10:READ a$:IF
VAL("&" + a$) <> sum THEN PRINT "DATA Error in Line",lin:STOP ELSE 40
50 'CALL &8000
100 FOR k=41216 TO 41216+255:POKE k,128+127*SIN((k-41216)*2*PI/25
6):NEXT
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110 FOR k=41472 TO 41472+127:POKE k,255:NEXT
120 FOR k=41472+128 TO 41472+255:POKE k,0:NEXT
130 k=41728:FOR i=0 TO 63:POKE k+i,128+2-i:NEXT
140 FOR i=64 TO 191:POKE k+i,254-(i-64)*2:NEXT
150 FOR i=192 TO 255:POKE k+i,(i-191)*2:NEXT
160 FOR k=41984 TO 41984+255:POKE k,k-41984:NEXT
170 FOR k=42240 TO 42240+255:POKE k,255-k+42240:NEXT
180 CALL &8000
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1000 DATA C3,B9,80,7C,B5,28,03,CD,75,BB,1A,B7,C8,CD,5A,BB, 8D0
1010 DATA 13,18,F7,46,72,65,71,75,65,6E,63,79,3A,20,00,50, 57E
1020 DATA 61,75,73,65,20,52,61,74,69,6F,3A,20,00,57,61,76, 555
1030 DATA 65,66,6F,72,6D,3A,20,00,50,72,65,73,73,20,27,4F, 516
1040 DATA 27,20,74,6F,20,73,74,61,72,74,00,2A,96,83,06,04, 4C5
1050 DATA 10,FE,01,00,FC,7E,ED,79,2C,01,92,F7,ED,49,05,0E, 6EE
1060 DATA 55,ED,49,06,F4,ED,78,01,82,F7,ED,49,CB,07,D0,C3, 8FF
1070 DATA 4E,80,3E,04,32,4F,80,C3,4B,80,3E,02,18,F6,3E,00, 52B
1080 DATA 18,F2,2A,96,83,01,00,FC,16,00,7E,23,15,ED,79,00, 57C
1090 DATA 00,7D,C6,00,6F,AF,BA,C2,8A,80,01,92,F7,ED,49,05, 7AC
1100 DATA 0E,55,ED,49,06,F4,ED,78,01,82,F7,ED,49,CB,07,D0, 84A
1110 DATA 25,C3,8A,80,5E,00,C3,8A,80,21,C1,80,0E,FF,C3,16, 765
1120 DATA BD,F3,01,00,00,CD,38,BC,01,00,00,AF,CD,32,BC,3E, 61B
1130 DATA 01,01,1A,1A,CD,32,BC,3E,02,CD,0E,BC,CD,14,BC,21, 586
1140 DATA 01,01,11,13,80,CD,03,80,21,01,40,11,1F,80,CD,03, 3D8
1150 DATA 80,21,15,01,11,2D,80,CD,03,80,21,19,01,11,38,80, 3C9
1160 DATA CD,03,80,21,00,A0,11,01,A0,01,FF,00,36,7F,ED,B0, 615
1170 DATA 3E,0A,CD,F7,81,3E,01,CD,C5,82,3E,01,CD,D8,81,CD, 812
1180 DATA 32,81,CD,2C,81,F3,CD,11,83,FB,18,F3,CD,03,BB,D0, 8E2
1190 DATA 18,FA,CD,2C,81,CD,06,8B,5F,FE,6F,C8,21,8A,81,16, 7F0
1200 DATA 00,06,11,14,BE,28,03,23,10,F9,78,B7,28,07,7A,CD, 4E5
1210 DATA F7,81,C3,32,81,7B,21,9B,81,16,00,06,0A,14,BE,28, 5C6
1220 DATA 03,23,10,F9,78,B7,28,07,7A,CD,C5,82,C3,32,81,7B, 70C
1230 DATA 21,A5,81,06,05,16,00,14,BE,28,03,23,10,F9,78,B7, 4C0
1240 DATA CA,32,81,7A,CD,D8,81,C3,32,81,31,32,33,34,35,36, 6C8
1250 DATA 37,38,39,30,71,77,65,72,74,79,75,7A,61,73,64,66, 611
1260 DATA 67,68,6A,6B,6C,63,76,62,6E,6D,00,20,20,53,49,4E, 550
1270 DATA 45,20,20,00,20,53,51,55,41,52,45,20,00,54,52,49, 385
1280 DATA 41,4E,47,4C,45,00,20,53,41,57,20,55,50,20,00,53, 3AA
1290 DATA 41,57,20,44,4F,57,4E,00,C6,A0,67,2E,00,22,96,83, 526
1300 DATA D6,A0,47,21,AA,81,2B,23,7E,A7,20,FB,10,F9,23,EB, 7AE
1310 DATA 21,15,0B,CD,03,80,C9,32,98,83,21,19,82,47,23,7E, 54B
1320 DATA A7,20,FB,10,F9,23,EB,21,01,0C,CD,03,80,3A,98,83, 6AC
1330 DATA FE,04,D0,3E,01,CD,C5,82,C9,C9,00,20,35,30,2E,30, 69A
1340 DATA 20,20,48,7A,00,20,37,35,2E,30,20,20,48,7A,00,31, 31F
1350 DATA 30,30,2E,30,20,20,48,7A,00,31,35,30,2E,30,20,20, 2F4
1360 DATA 48,7A,00,32,30,30,2E,30,20,20,48,7A,00,33,30,30, 347
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