PRINT-OUT VAN BBM-15.exe

C:\PROGRA~3\PB35\PB.EXE

File   Edit   Search   Run   Compile   Options   Debug

G:\PB35\BBM15.BAS

```
10    REM***Copyright 1998-2010, Fractal Consultancy.*****
20    REM ***Datum: 29 december 1997 - 31 december 2009***
30    SCREEN 12: color 1,15
35    print
40    print "FRACTAL-GENERATOR (3D Mandelbrot set) based on different Layers."
45    print "Program BBM15.exe d.d. 31 december 2009."
50    print "Copyright 1998-2010, Fractal Consultancy, Jules Ruis; All rights r
60    print "Wagenaarlaan 2, 5691 GP Son, The Netherlands; e-mail: Info@fractal
70    print
72    print "For 'standard' click on 'Enter'."
74    print
80    WINDOW (-320,-240)-(319,239): AC=0: BC=0 : VF=1 : T=0 : GK=0
90    input "Power P of function X^P; standard P=7>:";P
100   if P=0 then P=7
110   input "With different colors? (y/n; standard=y): ";OMG$
120   if OMG$="" then OMG$="y"
130   input "Size of the image (100-320; standard=200): ";N1
140   if N1=0 then N1=200
145   input "Starting point z-position (-1 until +1; standard=-1): ";C
150   if C=0 then C=-1
151   if P=2 then C=-0.45
152   Zstart=C
155   input "With automatical change of z-position? (y/n; standard=y): "Zpos$
160   if Zpos$="" then Zpos$="y"
162   if Zpos$="y" then goto 165 else goto 170
165   input "Size of z-steps; (0.01 until 0.1; standard=.05): ";delta
166   if delta=0 then delta=0.05
170   Input "Other centre-point than x,y=0,0? (y/n; standard=n): ";CH$
180   if CH$="" then CH$="n"
190   if CH$="y" then goto 200 else goto 250
200   input "Position x-centre? (.35 until -1.5; standard=-1.4): ";AC
210   if AC=0 then AC=-1.40
220   input "Position y-centre? (-.75 until .75; standard=0): ";BC
230   input "Zoom VF (10 - .01; standard=.1): ";VF
240   if VF=0 then VF=.1
250   if T=0 then cls:
253   print "P=";P
255   print "z=";C
260   if P=2 and CH$="y"then AC=-.65: BC=0:
270   DELH=1.6*VF: DELU=1.2*VF
280   N2=INT(N1*DELU/DELH)
290   FOR I=-N1 TO N1 : A=I*DELH/N1+AC
300     FOR J=-N2 TO N2 : B=J*DELU/N2+BC
```

00001:001 ├────=──INS──TAB──INDNT──UNDNT────┤Size: 3299├──◄■

Watch

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Run F10-Menu   NUM

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C:\PROGRA~3\PB35\PB.EXE                                          ument3 - Microsoft Word

    File      Edit     Search      Run      Compile     Options     Debug      cPrinter
                      G:\PB35\BBM15.BAS
300      FOR J=-N2 TO N2 : B=J*DELU/N2+BC
310      X=A: Y=B:   W=C: K=0:
320      DO:
340      R=SQR(X^2+Y^2+W^2)
345      theta=atn(W/(SQR(X^2+Y^2)))
350      if X>0 then fi=atn(Y/X): goto 370
355      if X=0 then fi=atn(Y/(.1E-40)): goto 370
360      if X<0 then fi=atn(Y/X)+3.141592653589793
370
380      X=(R^P)*cos(P*fi)*cos(P*theta)+A
390      Y=(R^P)*sin(P*fi)*cos(P*theta)+B
395      W=(R^P)*sin(P*theta)+C
410      K=K+1
420      LOOP UNTIL R>3 OR K=44
430      if OMG$="y" then goto 460 else goto 440
440      if K<44 then L=0 ELSE L=1
450      goto 660
460      if K<44 then G=15-K MOD 15 else L=1
470      G=15-K MOD 15
480       if G=1 then L=1
490       if G=2 then L=9
500       if G=3 then L=11
510       if G=4 then L=3
520       if G=5 then L=2
530       if G=6 then L=10
540       if G=7 then L=7
550       if G=8 then L=14
560       if G=9 then L=5
570       if G=10 then L=13
580       if G=11 then L=6
590       if G=12 then L=12
600       if G=13 then L=4
610       if G=14 then L=15
620       if G=15 then L=8
630       if K>15 then goto 660 else L=0
660       PSET (I,J),L
680       IF INKEY$<>"" THEN goto 740
690      NEXT J
700     NEXT I
705     if Zpos$="y" then goto 710 else goto 740
710     if C=-Zstart or C>Zstart then goto 740
720     C=C+delta: T=T+1
730     goto 255
 00043:001          = INS TAB INDNT UNDNT       Size:   3299
                              Watch

 F1-Help  F5-Zoom  F6-Switch  F7-Trace  F8-Step  F9-Run  F10-Menu        NUM
```

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File   Edit   Search   Run   Compile   Options   Debug
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```
730     goto 255
740     input "stop/new (s/n)";A$
750     if A$="n" then goto 80
760     if A$="s" then goto 770
770     print "Click on 'enter'"
780     end
```

|00085:001|──=──INS──TAB──INDNT──UNDNT──|Size: 3299|─←■

──────────────── Watch ────────────────

F1-Help   F5-Zoom   F6-Switch   F7-Trace   F8-Step   F9-Run   F10-Menu   NUM

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