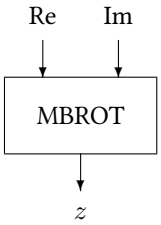
Block MBROT

The MBROT block calculates the Mandelbrot set.





Name	MBROT
Function	fb0064
Inputs	2
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

1	x coordinate, i. e., real part
2	y coordinate, i. e., imaginary part

Outputs

1	Mandelbrot color

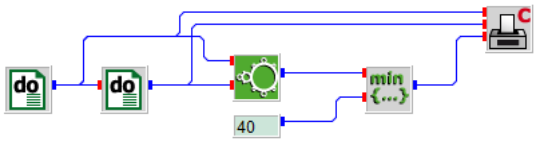
Parameters

None

Strings

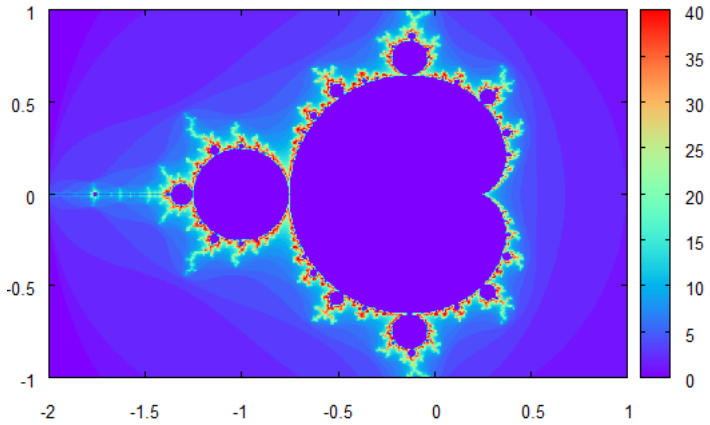
None

mbrot.vseit



An outer DO block varies the real part of a complex variable between -2 and $+1$ in steps of 0.005. The inner DO block varies the imaginary part between -1 and $+1$ in steps of 0.005. Both outputs are connected to an MBROT block whose nice carpet plot is displayed by a PLOTC block.

The MIN block restricts the color scale to 40 for representational reasons.



In Germany the Mandelbrot set is known as ”Apfelmännchen”.