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# **HIGH PERFORMANCE COMPUTING**

## **MANDELBROT SET**

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## 1 Mandelbrot set code

The Mandelbrot set is defined as the set of numbers in the  $\mathcal{R}^2$  that satisfies the following quadratic recurrence equation:

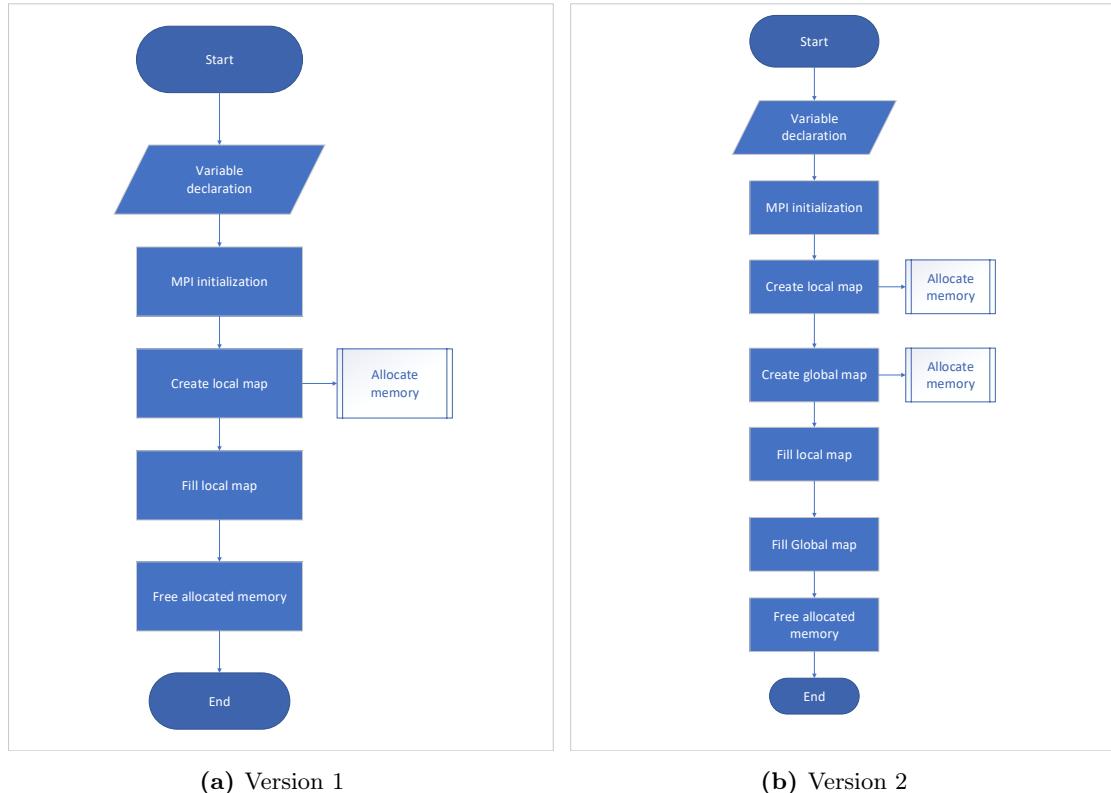
$$Z_{n+1} = Z_n + C \quad (1)$$

with  $z_0 = C$ , where  $C$  are points in the complex plane for which the values of  $Z_n$  does not tend to infinity. Depending on the divergence rate of each point, that is to say, the number of iterations it takes to stabilize, the final plot colors illustrates the points inside the Mandelbrot set as well as its divergence rate.

The aim of this project is to implement a model for computing the Mandelbrot set. The model at issue must be coded in C language and executed in parallel.

Two different versions of the code have been implemented. In the first case (*Version 1*), the code does not use a global map since it only returns the coordinates of the points that belong to the Mandelbrot set. Moreover, this code is implemented in a single dimension.

In the other case (*Version 2*), it is necessary to built a global map, where each position of the map is associated to a coordinate X and a coordinate Y, and it contains a value from 0 to 1 which indicates whether the point at issue belongs to the set or not (and other information that will be described in the below sections).



**Figure 1** Flowcharts for both Mandelbrot set codes

## 2 Version 1

### 2.1 Flowchart

The following flowchart shows a diagrammatic representation of the step-by-step approach to solving the task at issue.

As it can be seen, in this first algorithm the code is implemented just in one dimension. Moreover, since the code only returns the coordinates of the points that satisfy the Mandelbrot quadratic recurrence equation, it is not necessary to create a global map (each processor can print its own values).

Once the code is started, the variables have been declared and the MPI is initialized, a local map is created for each one of the processors, as shown in Figure 1a. In order to do it, the *worksplits* process is employed (see Figure 2), in which the total amount of tasks is distributed among the total amount of processors. Then, the local start and ending of each processor is returned. It is important to allocate memory for this issue.

Then, each processor fills its own local map. In first instance, in order to validate the results, the values used for filling the map must satisfy a simple equation to verify the correct operation of the code.

Once the results are validated, each local map must be coded to contain the values of interest. In this case, the limits of the real and imaginary parts are set (the  $C$  parameter from the Mandelbrot expression) and the maximum number iterations is imposed. Then, while the number of the current iteration is lower than the maximum number of iterations and, moreover, the equation does not tend to infinite, the code keeps running iterations.

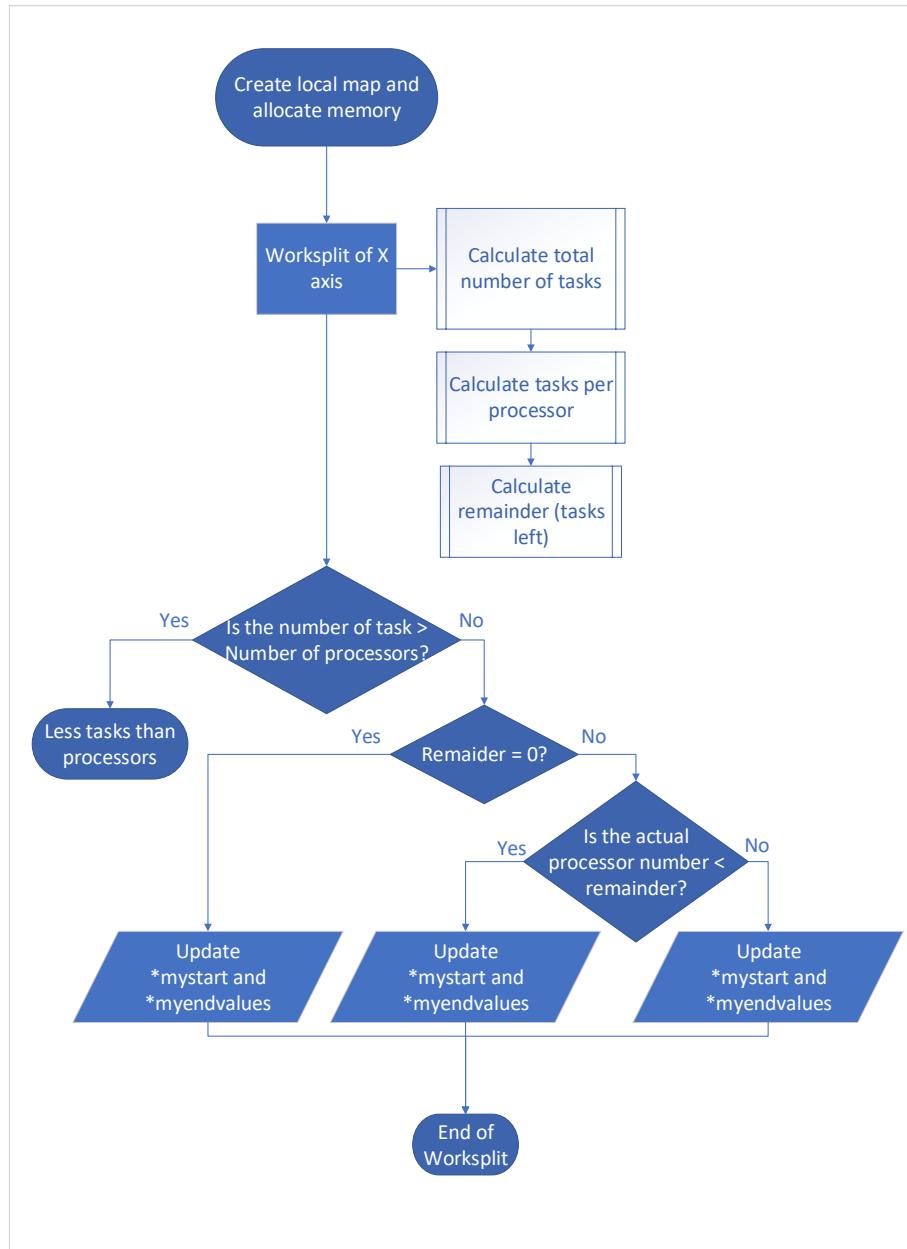
If the number of the current iteration reaches the number of maximum iterations, the value of  $C$  is saved (both real and imaginary parts).

However, if the Mandelbrot expression tend to infinite before the maximum number of iterations is reached, a point the coordinates of which are out of the domain is saved.

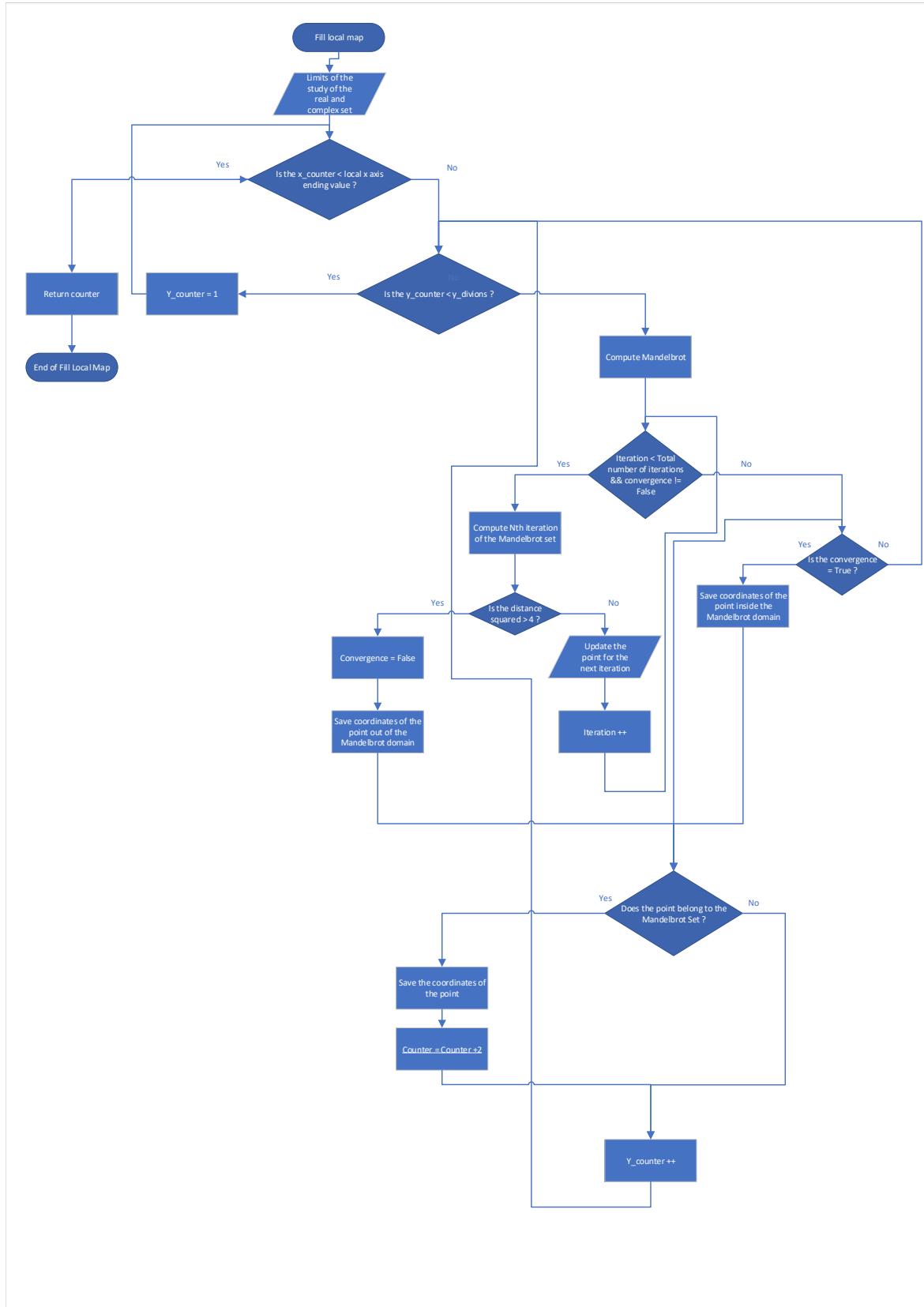
Once the value is saved, the code must get rid of the values of  $C$  that are not included in the Mandelbrot set. Only the points the coordinates of which belong to the domain (the limits have been set in the first step) are saved. Finally, the process resets for another value of  $C$ .

So, at the end, each local map is filled with only the points of the domain for which it is responsible that belong to the Mandelbrot set.

It is not necessary to built a global map since the resulting values are not associated with a region of the map (they are just the coordinates of the points that satisfy the equation).



**Figure 2** Creation of the local map for Version 1



**Figure 3** Filling the local map for Version 1

## 2.2 Validation of the results

The aim of the validating the results is to guarantee that the local map is correctly performed by each of the processors.

In addition, the different local maps are initially built with values that do not respond to the Mandelbrot set, but there is a need to ensure that the output data is printed as expected. The following Figures show the obtained results for this purpose, printing the number combinations that each processor is attempting and indicating which ones belong to the Mandelbrot set.

```

So, as I'm processor 1, I start with x3 and end with x4
I'm trying -0.333333 + -1.000000 i
I'm trying -0.333333 + -0.500000 i
The number -0.333333 + -0.500000 i is inside the Mandelbrot set
I'm trying -0.333333 + 0.000000 i
The number -0.333333 + 0.000000 i is inside the Mandelbrot set
I'm trying -0.333333 + 0.500000 i
The number -0.333333 + 0.500000 i is inside the Mandelbrot set
I'm trying -0.333333 + 1.000000 i
I'm trying 0.500000 + -1.000000 i
I'm trying 0.500000 + -0.500000 i
So, as I'm processor 0, I start with x1 and end with x2
I'm trying -2.000000 + -1.000000 i
I'm trying -2.000000 + -0.500000 i
I'm trying 0.500000 + 0.000000 i
I'm trying 0.500000 + 0.500000 i
I'm trying 0.500000 + 1.000000 i
I'm trying -2.000000 + 0.000000 i
The number -2.000000 + 0.000000 i is inside the Mandelbrot set
I'm trying -2.000000 + 0.500000 i
I'm trying -2.000000 + 1.000000 i
I'm trying -1.166667 + -1.000000 i
I'm trying -1.166667 + -0.500000 i
I'm trying -1.166667 + 0.000000 i
The number -1.166667 + 0.000000 i is inside the Mandelbrot set
I'm trying -1.166667 + 0.500000 i
I'm trying -1.166667 + 1.000000 i
  
```

**Figure 4** Validation with 2 processors and 4 divisions in x direction and 5 divisions in y direction for Version 1

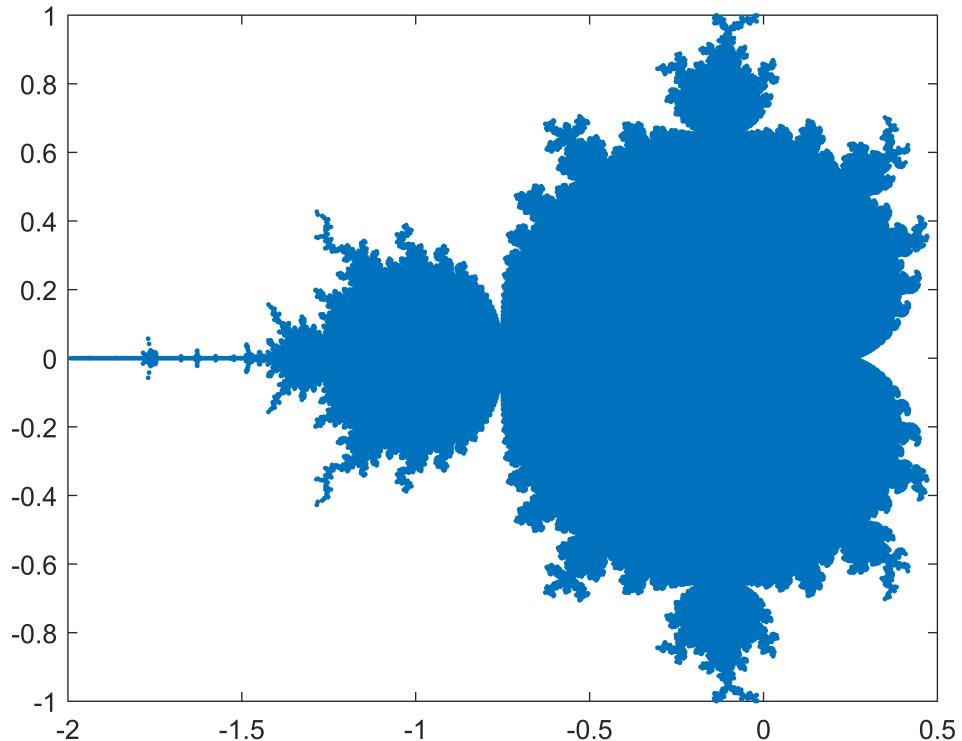
```
So, as I'm processor 2, I start with x5 and end with x5
I'm trying 0.500000 + -1.000000 i
I'm trying 0.500000 + -0.500000 i
I'm trying 0.500000 + 0.000000 i
I'm trying 0.500000 + 0.500000 i
I'm trying 0.500000 + 1.000000 i
So, as I'm processor 0, I start with x1 and end with x2
I'm trying -2.000000 + -1.000000 i
I'm trying -2.000000 + -0.500000 i
I'm trying -2.000000 + 0.000000 i
The number -2.000000 + 0.000000 i is inside the Mandelbrot set
I'm trying -2.000000 + 0.500000 i
I'm trying -2.000000 + 1.000000 i
I'm trying -1.375000 + -1.000000 i
I'm trying -1.375000 + -0.500000 i
I'm trying -1.375000 + 0.000000 i
The number -1.375000 + 0.000000 i is inside the Mandelbrot set
I'm trying -1.375000 + 0.500000 i
I'm trying -1.375000 + 1.000000 i
So, as I'm processor 1, I start with x3 and end with x4
I'm trying -0.750000 + -1.000000 i
I'm trying -0.750000 + -0.500000 i
I'm trying -0.750000 + 0.000000 i
The number -0.750000 + 0.000000 i is inside the Mandelbrot set
I'm trying -0.750000 + 0.500000 i
I'm trying -0.750000 + 1.000000 i
I'm trying -0.125000 + -1.000000 i
I'm trying -0.125000 + -0.500000 i
The number -0.125000 + -0.500000 i is inside the Mandelbrot set
I'm trying -0.125000 + 0.000000 i
The number -0.125000 + 0.000000 i is inside the Mandelbrot set
I'm trying -0.125000 + 0.500000 i
The number -0.125000 + 0.500000 i is inside the Mandelbrot set
I'm trying -0.125000 + 1.000000 i
```

**Figure 5** Validation with 3 processors and 5 divisions in each direction for Version 1

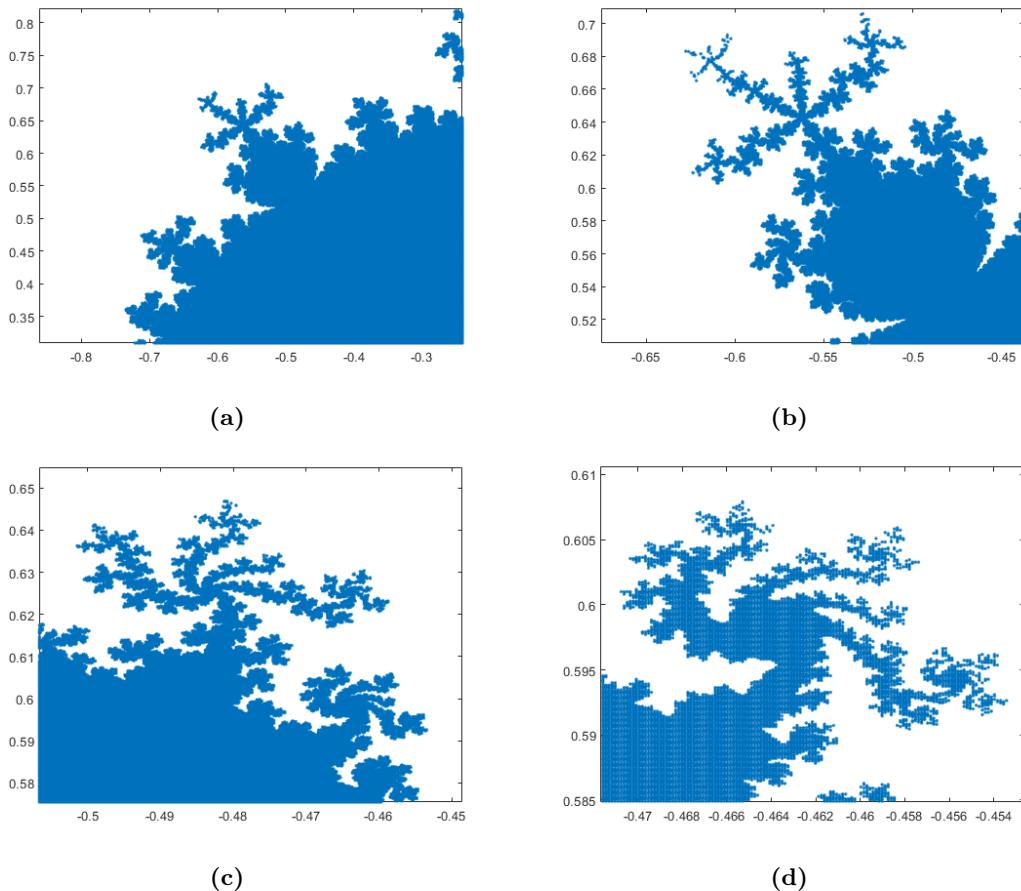
Consequently, this validation was successfully accomplished for different number of processors and divisions.

## 2.3 Plots

The code computes the Mandelbrot set for a range of  $x \in [-2, 1.5]$  and  $y \in [-1.5, 1.5]$ . The below results are obtained by fixing a maximum number of iterations of 250 iterations and a number of divisions of  $1E4 \times 1E4$ .



**Figure 6** Results for Version 1



**Figure 7** Detailed view for different parts of the plot

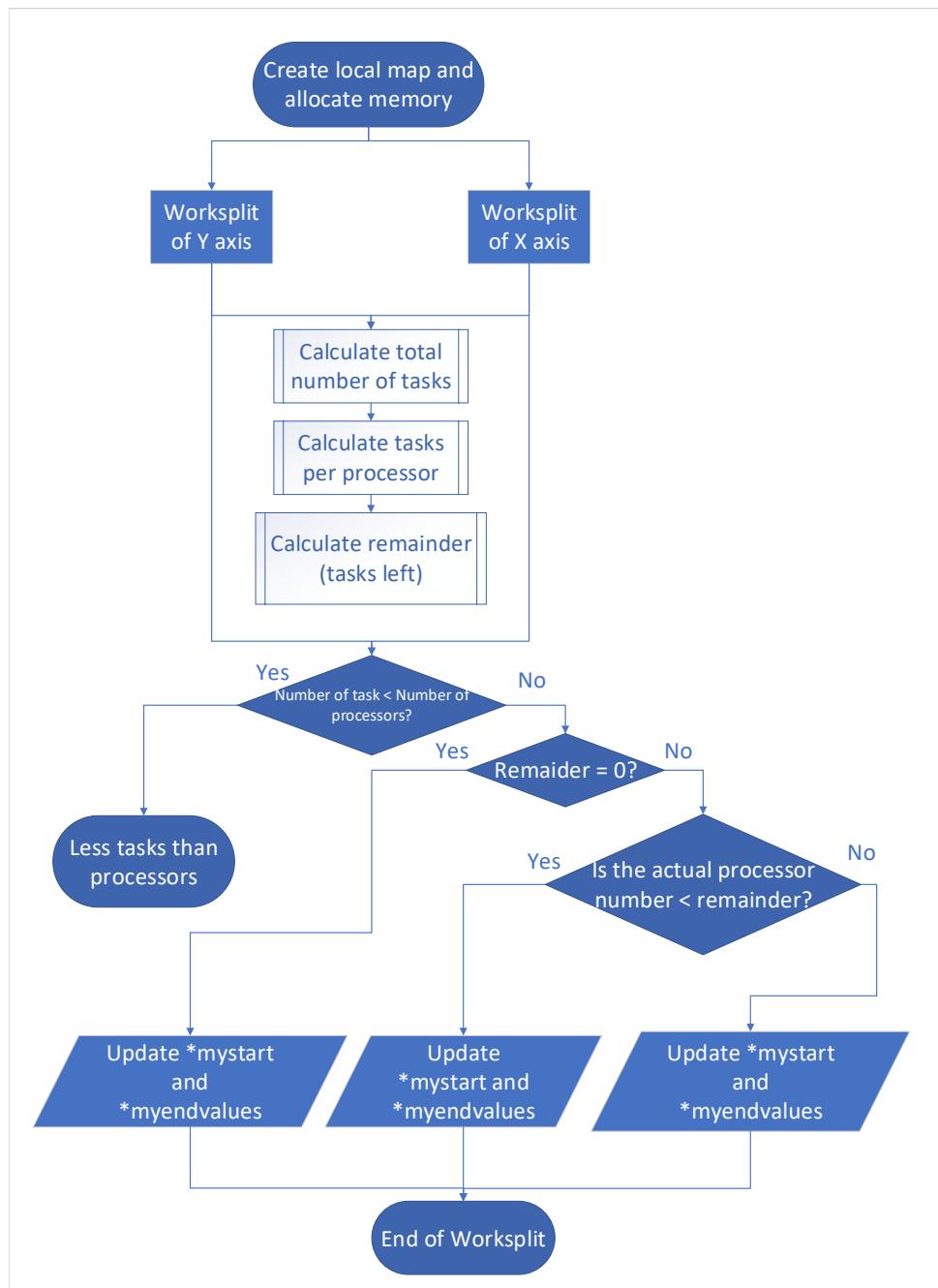
### 3 Version 2

#### 3.1 Flowchart

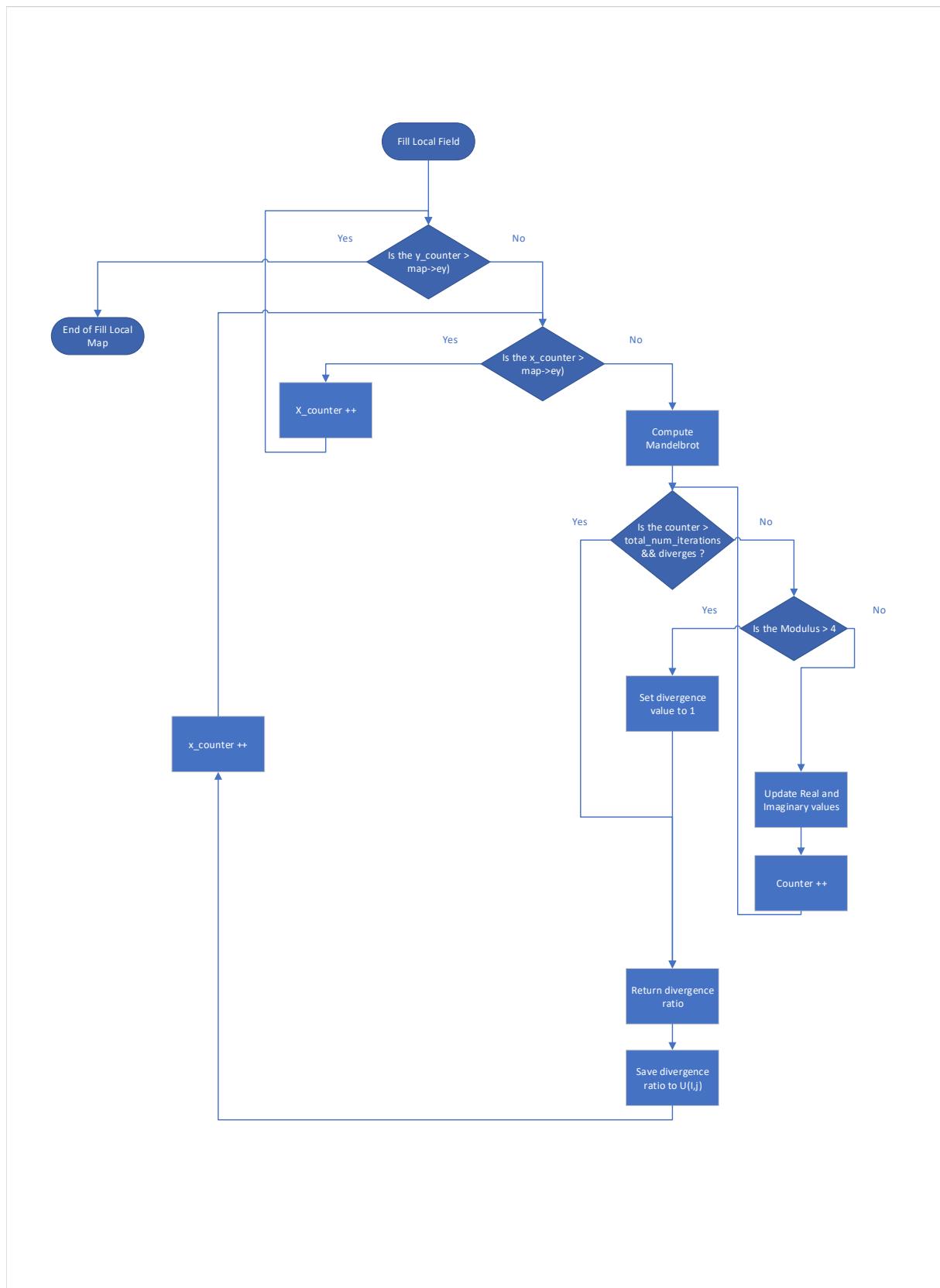
Unlike the previous case, this version implements an algorithm for both dimensions, X and Y. Once again, the following code computes the Mandelbrot set for a range of  $x \in [-2, 1.5]$  and  $y \in [-1.5, 1.5]$ .

In this case the need of a global map is clear (see Figure 1b), since the code does not return the coordinates of the points which satisfy the Mandelbrot expression but a number between 0 and 1, depending on the number of iterations needed for the equation to tend to infinity for a concrete value of  $C$ . So, the points that are part of the Mandelbrot Set return a 1 as the ratio of the number of executed iterations to the total number of iterations (which is an input). Therefore, the  $C$  values for which the expressions tends to infinity in the first iterations return a value close to 0 (Figure 9).

Hence, since each value from 0 to 1 is associated to concrete coordinates, it is important to save the values in an arranged way. So, each processor sends these divergence values for the tasks it develops to the first of them, building a global map. The first processor is responsible for appending the information it receives from each of the resting processors.



**Figure 8** Creation of the local map for Version 2

**Figure 9** Filling the local map for Version 2

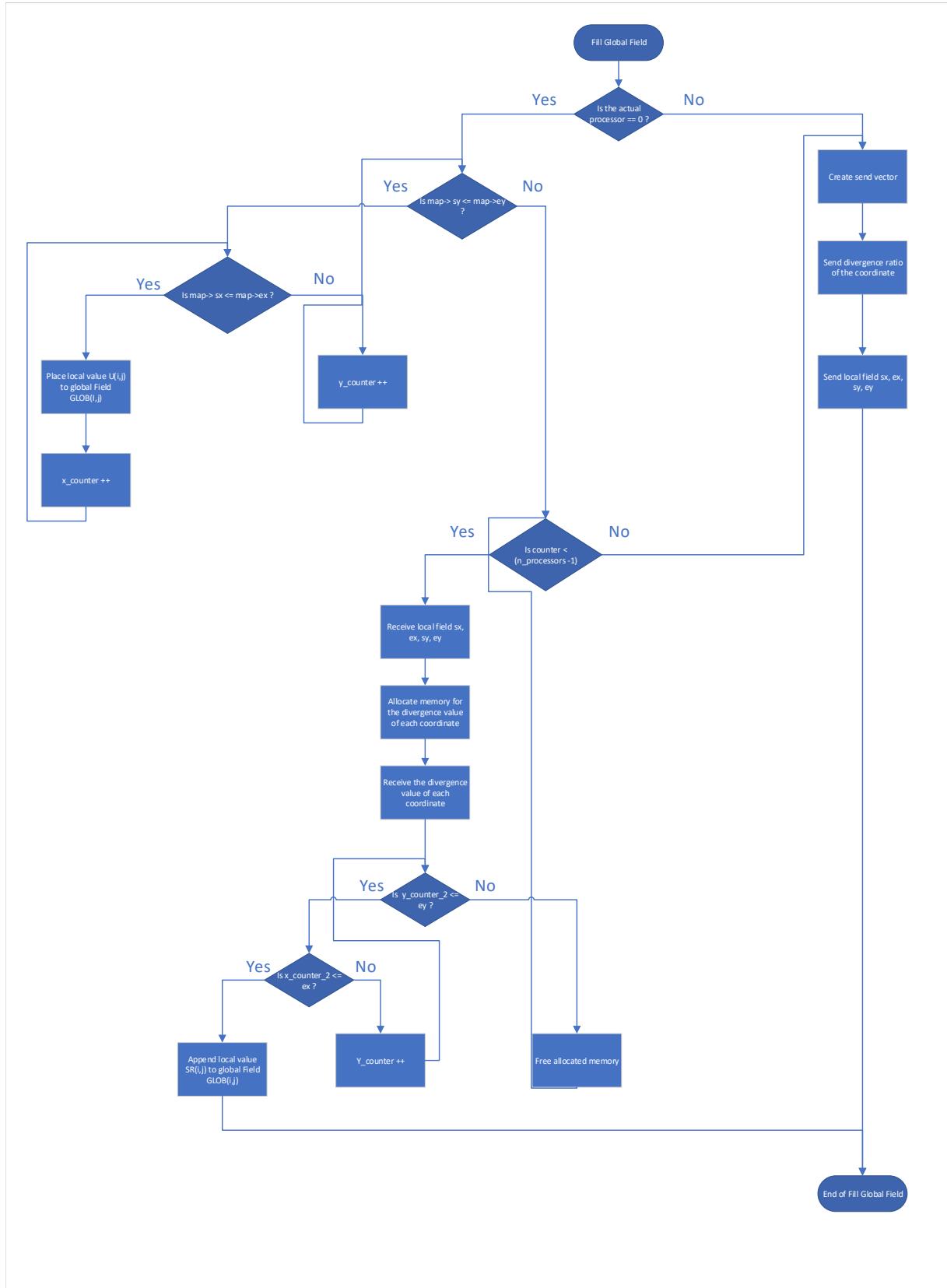


Figure 10 Filling the global map for Version 2

### 3.2 Validation of the results

The aim of the validating the results is to guarantee that the global map is correctly built with the local data sent by each of the processors. Thus, the local map is printed and it contains its index in the following format:  $x + \frac{y}{10}$ , being  $x$  and  $y$  the local position in each direction respectively.

```

So, as I'm processor 3, I start with x6 and end with x10
So, as I'm processor 3, I start with y6 and end with y10
6.600000 7.600000 8.600000 9.600000 10.600000
6.700000 7.700000 8.700000 9.700000 10.700000
6.800000 7.800000 8.800000 9.800000 10.800000
So, as I'm processor 0, I start with x1 and end with x5
So, as I'm processor 0, I start with y1 and end with y5
1.100000 2.100000 3.100000 4.100000 5.100000
1.200000 2.200000 3.200000 4.200000 5.200000
1.300000 2.300000 3.300000 4.300000 5.300000
1.400000 2.400000 3.400000 4.400000 5.400000
1.500000 2.500000 3.500000 4.500000 5.500000
1.600000 2.600000 3.600000 4.600000 5.600000
1.700000 2.700000 3.700000 4.700000 5.700000
1.800000 2.800000 3.800000 4.800000 5.800000
1.900000 2.900000 3.900000 4.900000 5.900000
2.000000 3.000000 4.000000 5.000000 6.000000

```

**Figure 11** Validation of local maps with 2 processors in each direction and 10 divisions in each direction for Version 2

```

So, as I'm processor 3, I start with x11 and end with x20
So, as I'm processor 3, I start with y8 and end with y14
11.800000 12.800000 13.800000 14.800000 15.800000 16.800000 17.800000 18.800000 19.800000 20.800000
11.900000 12.900000 13.900000 14.900000 15.900000 16.900000 17.900000 18.900000 19.900000 20.900000
12.000000 13.000000 14.000000 15.000000 16.000000 17.000000 18.000000 19.000000 20.000000 21.000000
12.100000 13.100000 14.100000 15.100000 16.100000 17.100000 18.100000 19.100000 20.100000 21.100000
12.200000 13.200000 14.200000 15.200000 16.200000 17.200000 18.200000 19.200000 20.200000 21.200000
12.300000 13.300000 14.300000 15.300000 16.300000 17.300000 18.300000 19.300000 20.300000 21.300000
12.400000 13.400000 14.400000 15.400000 16.400000 17.400000 18.400000 19.400000 20.400000 21.400000
So, as I'm processor 2, I start with x1 and end with x10
So, as I'm processor 2, I start with y8 and end with y14
1.800000 2.800000 3.800000 4.800000 5.800000 6.800000 7.800000 8.800000 9.800000 10.800000
1.900000 2.900000 3.900000 4.900000 5.900000 6.900000 7.900000 8.900000 9.900000 10.900000
2.000000 3.000000 4.000000 5.000000 6.000000 7.000000 8.000000 9.000000 10.000000 11.000000
2.100000 3.100000 4.100000 5.100000 6.100000 7.100000 8.100000 9.100000 10.100000 11.100000
2.200000 3.200000 4.200000 5.200000 6.200000 7.200000 8.200000 9.200000 10.200000 11.200000
2.300000 3.300000 4.300000 5.300000 6.300000 7.300000 8.300000 9.300000 10.300000 11.300000
So, as I'm processor 1, I start with x11 and end with x20
2.400000 3.400000 4.400000 5.400000 6.400000 7.400000 8.400000 9.400000 10.400000 11.400000
So, as I'm processor 1, I start with y1 and end with y7
11.100000 12.100000 13.100000 14.100000 15.100000 16.100000 17.100000 18.100000 19.100000 20.100000
11.200000 12.200000 13.200000 14.200000 15.200000 16.200000 17.200000 18.200000 19.200000 20.200000
11.300000 12.300000 13.300000 14.300000 15.300000 16.300000 17.300000 18.300000 19.300000 20.300000
11.400000 12.400000 13.400000 14.400000 15.400000 16.400000 17.400000 18.400000 19.400000 20.400000
11.500000 12.500000 13.500000 14.500000 15.500000 16.500000 17.500000 18.500000 19.500000 20.500000
11.600000 12.600000 13.600000 14.600000 15.600000 16.600000 17.600000 18.600000 19.600000 20.600000
11.700000 12.700000 13.700000 14.700000 15.700000 16.700000 17.700000 18.700000 19.700000 20.700000
So, as I'm processor 0, I start with x1 and end with x10
So, as I'm processor 0, I start with y1 and end with y7
1.100000 2.100000 3.100000 4.100000 5.100000 6.100000 7.100000 8.100000 9.100000 10.100000
1.200000 2.200000 3.200000 4.200000 5.200000 6.200000 7.200000 8.200000 9.200000 10.200000
1.300000 2.300000 3.300000 4.300000 5.300000 6.300000 7.300000 8.300000 9.300000 10.300000
1.400000 2.400000 3.400000 4.400000 5.400000 6.400000 7.400000 8.400000 9.400000 10.400000
1.500000 2.500000 3.500000 4.500000 5.500000 6.500000 7.500000 8.500000 9.500000 10.500000
1.600000 2.600000 3.600000 4.600000 5.600000 6.600000 7.600000 8.600000 9.600000 10.600000
1.700000 2.700000 3.700000 4.700000 5.700000 6.700000 7.700000 8.700000 9.700000 10.700000

```

**Figure 12** Validation of local maps with 2 processors in x direction and 3 processors in y direction 20 divisions in each direction for Version 2

In addition, in order to verify the data that is sent and received, the global map of each previous case is printed accomplishing the expected result.

2.000000	3.000000	4.000000	5.000000	6.000000	7.000000	8.000000	9.000000	10.000000	11.000000
1.900000	2.900000	3.900000	4.900000	5.900000	6.900000	7.900000	8.900000	9.900000	10.900000
1.800000	2.800000	3.800000	4.800000	5.800000	6.800000	7.800000	8.800000	9.800000	10.800000
1.700000	2.700000	3.700000	4.700000	5.700000	6.700000	7.700000	8.700000	9.700000	10.700000
1.600000	2.600000	3.600000	4.600000	5.600000	6.600000	7.600000	8.600000	9.600000	10.600000
1.500000	2.500000	3.500000	4.500000	5.500000	6.500000	7.500000	8.500000	9.500000	10.500000
1.400000	2.400000	3.400000	4.400000	5.400000	6.400000	7.400000	8.400000	9.400000	10.400000
1.300000	2.300000	3.300000	4.300000	5.300000	6.300000	7.300000	8.300000	9.300000	10.300000
1.200000	2.200000	3.200000	4.200000	5.200000	6.200000	7.200000	8.200000	9.200000	10.200000
1.100000	2.100000	3.100000	4.100000	5.100000	6.100000	7.100000	8.100000	9.100000	10.100000

**Figure 13** Validation of global maps with 2 processors in each direction and 10 divisions in each direction for Version 2

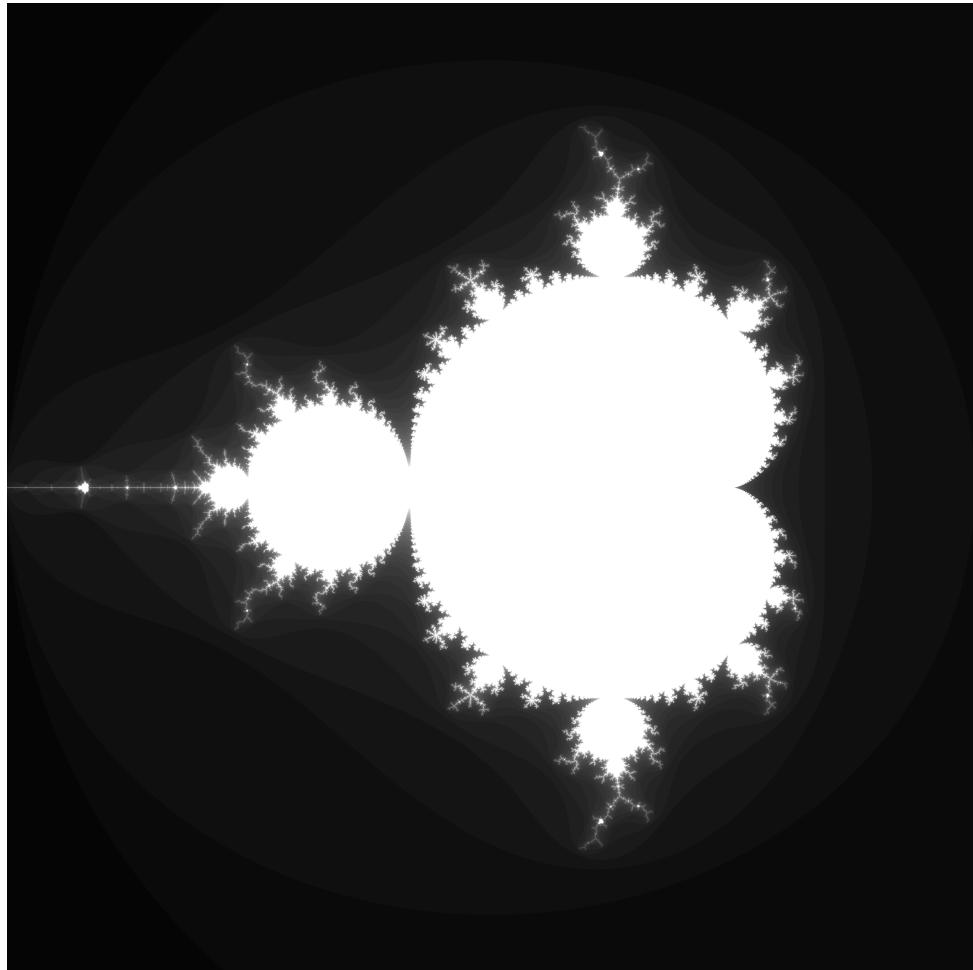
3.000000	4.000000	5.000000	6.000000	7.000000	8.000000	9.000000	10.000000	11.000000	12.000000	13.000000	14.000000	15.000000	16.000000	17.000000	18.000000	19.000000	20.000000	21.000000	22.000000
3.000000	3.900000	4.800000	5.800000	6.800000	7.800000	8.800000	9.800000	10.800000	11.800000	12.800000	13.800000	14.800000	15.800000	16.800000	17.800000	18.800000	19.800000	20.800000	21.800000
2.800000	3.800000	4.800000	5.800000	6.800000	7.800000	8.800000	9.800000	10.800000	11.800000	12.800000	13.800000	14.800000	15.800000	16.800000	17.800000	18.800000	19.800000	20.800000	21.800000
2.700000	3.700000	4.700000	5.700000	6.700000	7.700000	8.700000	9.700000	10.700000	11.700000	12.700000	13.700000	14.700000	15.700000	16.700000	17.700000	18.700000	19.700000	20.700000	21.700000
2.600000	3.600000	4.600000	5.600000	6.600000	7.600000	8.600000	9.600000	10.600000	11.600000	12.600000	13.600000	14.600000	15.600000	16.600000	17.600000	18.600000	19.600000	20.600000	21.600000
2.500000	3.500000	4.500000	5.500000	6.500000	7.500000	8.500000	9.500000	10.500000	11.500000	12.500000	13.500000	14.500000	15.500000	16.500000	17.500000	18.500000	19.500000	20.500000	21.500000
2.400000	3.400000	4.400000	5.400000	6.400000	7.400000	8.400000	9.400000	10.400000	11.400000	12.400000	13.400000	14.400000	15.400000	16.400000	17.400000	18.400000	19.400000	20.400000	21.400000
2.300000	3.300000	4.300000	5.300000	6.300000	7.300000	8.300000	9.300000	10.300000	11.300000	12.300000	13.300000	14.300000	15.300000	16.300000	17.300000	18.300000	19.300000	20.300000	21.300000
2.200000	3.200000	4.200000	5.200000	6.200000	7.200000	8.200000	9.200000	10.200000	11.200000	12.200000	13.200000	14.200000	15.200000	16.200000	17.200000	18.200000	19.200000	20.200000	21.200000
2.100000	3.100000	4.100000	5.100000	6.100000	7.100000	8.100000	9.100000	10.100000	11.100000	12.100000	13.100000	14.100000	15.100000	16.100000	17.100000	18.100000	19.100000	20.100000	21.100000
2.000000	3.000000	4.000000	5.000000	6.000000	7.000000	8.000000	9.000000	10.000000	11.000000	12.000000	13.000000	14.000000	15.000000	16.000000	17.000000	18.000000	19.000000	20.000000	21.000000
1.900000	2.900000	3.900000	4.900000	5.900000	6.900000	7.900000	8.900000	9.900000	10.900000	11.900000	12.900000	13.900000	14.900000	15.900000	16.900000	17.900000	18.900000	19.900000	20.900000
1.800000	2.800000	3.800000	4.800000	5.800000	6.800000	7.800000	8.800000	9.800000	10.800000	11.800000	12.800000	13.800000	14.800000	15.800000	16.800000	17.800000	18.800000	19.800000	20.800000
1.700000	2.700000	3.700000	4.700000	5.700000	6.700000	7.700000	8.700000	9.700000	10.700000	11.700000	12.700000	13.700000	14.700000	15.700000	16.700000	17.700000	18.700000	19.700000	20.700000
1.600000	2.600000	3.600000	4.600000	5.600000	6.600000	7.600000	8.600000	9.600000	10.600000	11.600000	12.600000	13.600000	14.600000	15.600000	16.600000	17.600000	18.600000	19.600000	20.600000
1.500000	2.500000	3.500000	4.500000	5.500000	6.500000	7.500000	8.500000	9.500000	10.500000	11.500000	12.500000	13.500000	14.500000	15.500000	16.500000	17.500000	18.500000	19.500000	20.500000
1.400000	2.400000	3.400000	4.400000	5.400000	6.400000	7.400000	8.400000	9.400000	10.400000	11.400000	12.400000	13.400000	14.400000	15.400000	16.400000	17.400000	18.400000	19.400000	20.400000
1.300000	2.300000	3.300000	4.300000	5.300000	6.300000	7.300000	8.300000	9.300000	10.300000	11.300000	12.300000	13.300000	14.300000	15.300000	16.300000	17.300000	18.300000	19.300000	20.300000
1.200000	2.200000	3.200000	4.200000	5.200000	6.200000	7.200000	8.200000	9.200000	10.200000	11.200000	12.200000	13.200000	14.200000	15.200000	16.200000	17.200000	18.200000	19.200000	20.200000
1.100000	2.100000	3.100000	4.100000	5.100000	6.100000	7.100000	8.100000	9.100000	10.100000	11.100000	12.100000	13.100000	14.100000	15.100000	16.100000	17.100000	18.100000	19.100000	20.100000

**Figure 14** Validation of global maps with 2 processors in x direction and 3 processors in y direction 20 divisions in each direction for Version 2

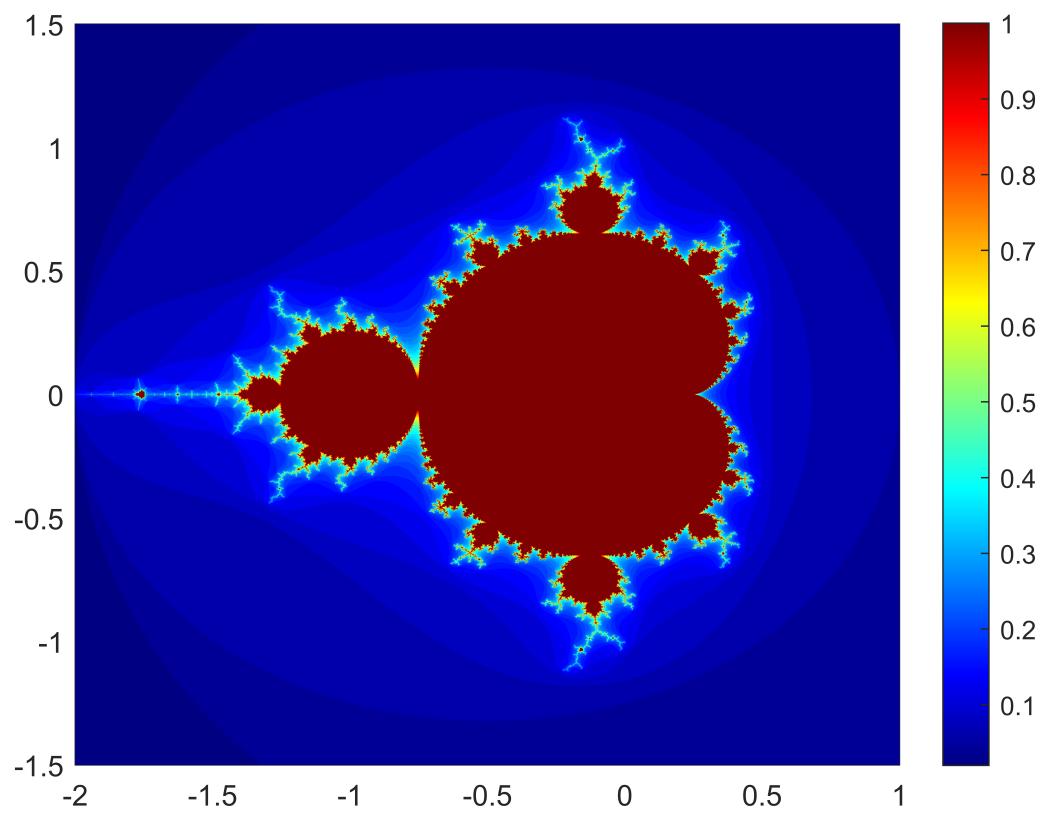
Hence, both validation are also achieved with different number of processors and divisions.

### 3.3 Plots

The below results are obtained by fixing a maximum number of iterations of 100 iterations and a number of divisions of  $1E4 \times 1E4$ .



**Figure 15** Results for Version 2



**Figure 16** Results for Version 2

## 4 Commit history

### 4.1 Main - Master branch

## fork yiqiangjizhang / Mandelbrot-Set Private

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[main](#) [...](#)

-o Commits on Mar 11, 2021

foravscode	<a href="#">3382b68</a>	<a href="#">🔗</a>
foravscode	<a href="#">346c0c5</a>	<a href="#">🔗</a>
Merge branch 'angel' into main	<a href="#">d5e8b75</a>	<a href="#">🔗</a>
reorganitzacio	<a href="#">8ca718d</a>	<a href="#">🔗</a>
test	<a href="#">d2f3d23</a>	<a href="#">🔗</a>
Main code from Angel	<a href="#">5174639</a>	<a href="#">🔗</a>
yiqiangjizhang committed 6 days ago		
moltmillor	<a href="#">6c5b404</a>	<a href="#">🔗</a>
bieen	<a href="#">9aa1583</a>	<a href="#">🔗</a>
algo	<a href="#">27bcd61</a>	<a href="#">🔗</a>
worksplit_nice	<a href="#">b0213c5</a>	<a href="#">🔗</a>
Merge branch 'ivan' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	<a href="#">0b77e9d</a>	<a href="#">🔗</a>
angelpan8 committed 6 days ago		
info para angel	<a href="#">d0789ac</a>	<a href="#">🔗</a>
Ivan-Sermanoukian committed 6 days ago		
Merge branch 'ivan' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	<a href="#">351b3c7</a>	<a href="#">🔗</a>
angelpan8 committed 6 days ago		

-o Commits on Mar 10, 2021

copy del main	<a href="#">7d6f71d</a>	<a href="#">🔗</a>
Ivan-Sermanoukian committed 7 days ago		
changes	<a href="#">4b9a6c7</a>	<a href="#">🔗</a>
Ivan-Sermanoukian committed 7 days ago		
Copied main.c to main_yiqiangji.c	<a href="#">4f99c2e</a>	<a href="#">🔗</a>
yiqiangjizhang committed 7 days ago		
adios a.out	<a href="#">ab7f437</a>	<a href="#">🔗</a>
Ivan-Sermanoukian committed 7 days ago		
funciona con 1 p	<a href="#">3fbcc88f</a>	<a href="#">🔗</a>
Ivan-Sermanoukian committed 7 days ago		
Rewritten printField	<a href="#">cdc061</a>	<a href="#">🔗</a>
yiqiangjizhang committed 7 days ago		
Rewritten printField	<a href="#">6c5bb48</a>	<a href="#">🔗</a>
yiqiangjizhang committed 7 days ago		
memory matrix	<a href="#">d6f765c</a>	<a href="#">🔗</a>
Ivan-Sermanoukian committed 7 days ago		

**mas bugs** Ivan-Sermanoukian committed 7 days ago [cedd92b](#) **Added Matlab Mandelbrot** yiqiangjizhang committed 7 days ago [c7d80ea](#) **Arreglo bugs del malloc** Ivan-Sermanoukian committed 7 days ago [3f61cbd](#) **Added Preliminary** yiqiangjizhang committed 7 days ago [f723cbd](#) **Added Preliminary** yiqiangjizhang committed 7 days ago [101f8d5](#) **mensaje** Ivan-Sermanoukian committed 7 days ago [ee21af7](#) **testnofunciona** Ivan-Sermanoukian committed 8 days ago [df0e748](#) **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...>** Ivan-Sermanoukian committed 8 days ago [802a9b2](#) **-o- Commits on Mar 8, 2021****Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...>** yiqiangjizhang committed 9 days ago [e1a2114](#) **Merge branch 'yiqiangji' into main** yiqiangjizhang committed 9 days ago [760c1cd](#) **Create Map** yiqiangjizhang committed 9 days ago [b49e15c](#) **Main file** yiqiangjizhang committed 9 days ago [b6cb0cc](#) **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...>** Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago [60e09e5](#) **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...>** angelpan8 committed 9 days ago [0bf5869](#) [Newer](#) [Older](#)

## >yiqiangjizhang / Mandelbrot-Set Private

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[main](#) [...](#)

-o Commits on Mar 8, 2021

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



9f96dfa



example

 Ivan-Sermanoukian committed 9 days ago



c5b0a6a



main\_angel

 angelp8 committed 9 days ago



54f8cc7



Copying from the example

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



fc70df4



main\_angel

 angelp8 committed 9 days ago



2a45c80



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Ivan-Sermanoukian committed 9 days ago



cc16032



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 yiqiangjizhang committed 9 days ago



49e9c97



main\_ivan\_creation

 Ivan-Sermanoukian committed 9 days ago



fdd233a



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Ivan-Sermanoukian committed 9 days ago



26a2ceb



Merge branch 'yiqiangji' into main

 yiqiangjizhang committed 9 days ago



a1cff7b



main\_creation

 Ivan-Sermanoukian committed 9 days ago



1038de4



Main file (yiqiang)

 yiqiangjizhang committed 9 days ago



a4643d1



Creating main\_alba.c

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



c0814e0



Removed test files

 yiqiangjizhang committed 9 days ago



55dc23b



-o Commits on Mar 7, 2021

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago



755effb



Test Alba merge

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago



05726e6



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelp8 committed 10 days ago



327c161



Merge branch 'ivan' into main

 Ivan-Sermanoukian committed 10 days ago



4842030



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Ivan-Sermanoukian committed 10 days ago



e7d263b



test2\_angel

 angelp8 committed 10 days ago



9025c23



Added git merge (yq)

 yiqiangjizhang committed 10 days ago



91ae6cc



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...

 Ivan-Sermanoukian committed 10 days ago

 9799507 

Testing merge alba

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

 9472fd1 

Added git pull test (yiqiang)

 yiqiangjizhang committed 10 days ago

 74e9aea 

Test alba branch

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

 2021d5f 

testv2

 Ivan-Sermanoukian committed 10 days ago

 1ac21e9 

test Alba

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

 9d1f475 

test\_angel

 angelpang8 committed 10 days ago

 a61e9e6 

test2

 Ivan-Sermanoukian committed 10 days ago

 e9cdf1a 

testing ivan

 Ivan-Sermanoukian committed 10 days ago

 95c9ae0 

Branch test

 yiqiangjizhang committed 10 days ago

 2195733 

Readme.md

 yiqiangjizhang committed 10 days ago

 90c0da9 

[Newer](#) [Older](#)

## yiqiangjizhang / Mandelbrot-Set Private

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[main](#) [...](#)

-o Commits on Mar 17, 2021

Mandelbrot 1D

 yiqiangjizhang committed 6 hours ago



1954b90



Mandelbrot 1D

 yiqiangjizhang committed 10 hours ago



ead46dd



-o Commits on Mar 16, 2021

Added Final version mandelbrot\_1D.c and output.csv

 yiqiangjizhang committed yesterday



278c711



-o Commits on Mar 15, 2021

updated file

 Ivan-Sermanoukian committed 2 days ago



91219e5



Reorganized main

 yiqiangjizhang committed 2 days ago



8900a3f



Added second version test.c

 yiqiangjizhang committed 3 days ago



b8bb17e



-o Commits on Mar 14, 2021

Added main\_mandelbrot\_1proc.c

 yiqiangjizhang committed 3 days ago



a0a777b



Mandelbrot with 1 x

 yiqiangjizhang committed 3 days ago



4009c5a



Added main Mandelbrot

 yiqiangjizhang committed 3 days ago



df55f72



good version

 Ivan-Sermanoukian committed 3 days ago



6f43f9d



Added main 1D

 yiqiangjizhang committed 3 days ago



fecb69d



-o Commits on Mar 13, 2021

v2

 Ivan-Sermanoukian committed 4 days ago



bc33966



v2

 Ivan-Sermanoukian committed 4 days ago



8d4688b



v2

 Ivan-Sermanoukian committed 4 days ago



008f9bd



Removed main.c

 yiqiangjizhang committed 4 days ago



96cf66f



Main code with add

 yiqiangjizhang committed 4 days ago



ac22344



Main code with add

 yiqiangjizhang committed 4 days ago



511b09c



commented main

 Ivan-Sermanoukian committed 4 days ago



d5d4f14



## -o- Commits on Mar 12, 2021

funciona indices	 Ivan-Sermanoukian committed 5 days ago	 <a href="#">9d39770</a>	
Formatted and commented main code	 yiqiangjizhang committed 5 days ago	 <a href="#">4f48b6c</a>	
Merge remote-tracking branch 'origin/angel' into yiqiangji	 yiqiangjizhang committed 5 days ago	 <a href="#">728a08e</a>	
guay	 angelp8 committed 5 days ago	 <a href="#">7d4696a</a>	
Formatted and commented main code	 yiqiangjizhang committed 5 days ago	 <a href="#">2406509</a>	
hola	 Ivan-Sermanoukian committed 5 days ago	 <a href="#">c3af2f4</a>	
Merge branch 'angel' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set">https://github.com/yiqiangjizhang/Mandelbrot-Set</a> ...	 Ivan-Sermanoukian committed 5 days ago	 <a href="#">fe39d4f</a>	
error raro	 Ivan-Sermanoukian committed 5 days ago	 <a href="#">b3cdb9d</a>	
retocar sends	 angelp8 committed 5 days ago	 <a href="#">08c169b</a>	
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set">https://github.com/yiqiangjizhang/Mandelbrot-Set</a> ...	 angelp8 committed 5 days ago	 <a href="#">2701453</a>	
Added Main	 yiqiangjizhang committed 5 days ago	 <a href="#">912e25b</a>	
Main	 yiqiangjizhang committed 5 days ago	 <a href="#">f01b8f3</a>	
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set">https://github.com/yiqiangjizhang/Mandelbrot-Set</a> ...	 yiqiangjizhang committed 6 days ago	 <a href="#">5fd035c</a>	
upload	 Ivan-Sermanoukian committed 6 days ago	 <a href="#">293af2d</a>	
main update	 Ivan-Sermanoukian committed 6 days ago	 <a href="#">38a1c0a</a>	
estructura	 Ivan-Sermanoukian committed 6 days ago	 <a href="#">c69c56f</a>	

## -o- Commits on Mar 11, 2021

Removed personal mains	 yiqiangjizhang committed 6 days ago	 <a href="#">5c3c78b</a>	
------------------------	---	---	---

[Newer](#) [Older](#)

## 4.2 Alba branch

## >yiqiangjizhang / Mandelbrot-Set Private

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alba ▾

-o- Commits on Mar 8, 2021

### Create Map

yiqiangjizhang committed 9 days ago

b49e15c

### Main file

yiqiangjizhang committed 9 days ago

b6cb0cc

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

60e09e5

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

angelpan8 committed 9 days ago

0bf5869

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

9f96dfa

### example

Ivan-Sermanoukian committed 9 days ago

c5b0a6a

### main\_angel

angelpan8 committed 9 days ago

54f8cc7

### Copying from the example

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

fc70df4

### main\_angel

angelpan8 committed 9 days ago

2a45c80

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

Ivan-Sermanoukian committed 9 days ago

cc16032

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

yiqiangjizhang committed 9 days ago

49e9c97

### main\_ivan\_creation

Ivan-Sermanoukian committed 9 days ago

fdd233a

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

Ivan-Sermanoukian committed 9 days ago

26a2ceb

### Merge branch 'yiqiangji' into main

yiqiangjizhang committed 9 days ago

a1cff7b

### main\_creation

Ivan-Sermanoukian committed 9 days ago

1038de4

### Main file (yiqiang)

yiqiangjizhang committed 9 days ago

a4643d1

### Creating main\_alba.c

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

c0814e0

### Removed test files

yiqiangjizhang committed 9 days ago

55dc23b

-o- Commits on Mar 7, 2021

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

755effb

### Test Alba merge

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

05726e6

### Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...

angelpan8 committed 10 days ago

327c161

Merge branch 'ivan' into main	 Ivan-Sermanoukian committed 10 days ago	 4842030 
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a> ...	 Ivan-Sermanoukian committed 10 days ago	 e7d263b 
test2_angel	 angelpan8 committed 10 days ago	 9025c23 
Added git merge (yq)	 yiqiangjizhang committed 10 days ago	 91ae6cc 
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a> ...	 Ivan-Sermanoukian committed 10 days ago	 9799507 
Testing merge alba	 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago	 9472fd1 
Added git pull test (yiqiang)	 yiqiangjizhang committed 10 days ago	 74e9aea 
Test alba branch	 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago	 2021d5f 
testv2	 Ivan-Sermanoukian committed 10 days ago	 1ac21e9 
test Alba	 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago	 9d1f475 
test_angel	 angelpan8 committed 10 days ago	 a61e9e6 
test2	 Ivan-Sermanoukian committed 10 days ago	 e9cdf1a 
testing ivan	 Ivan-Sermanoukian committed 10 days ago	 95c9ae0 
Branch test	 yiqiangjizhang committed 10 days ago	 2195733 

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alba ▾

-o Commits on Mar 12, 2021

upload

Ivan-Sermanoukian committed 6 days ago



293af2d



main update

Ivan-Sermanoukian committed 6 days ago



38a1c0a



estructura

Ivan-Sermanoukian committed 6 days ago



c69c56f



-o Commits on Mar 11, 2021

Removed personal mains

yiqiangjizhang committed 6 days ago



5c3c78b



foravscode

angelp8 committed 6 days ago



3382b68



foravscode

angelp8 committed 6 days ago



346c0c5



Merge branch 'angel' into main

angelp8 committed 6 days ago



d5e8b75



reorganitzacio

angelp8 committed 6 days ago



8ca718d



test

angelp8 committed 6 days ago



d2f3d23



Main code from Angel

yiqiangjizhang committed 6 days ago



5174639



moltmillor

angelp8 committed 6 days ago



6c5b404



bieen

angelp8 committed 6 days ago



9aa1583



algo

angelp8 committed 6 days ago



27bcd61



worksplit\_nice

angelp8 committed 6 days ago



b0213c5



Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

angelp8 committed 6 days ago



0b77e9d



info para angel

Ivan-Sermanoukian committed 6 days ago



d0789ac



Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

angelp8 committed 6 days ago



351b3c7



-o Commits on Mar 10, 2021

copy del main

Ivan-Sermanoukian committed 7 days ago



7d6f71d



changes

Ivan-Sermanoukian committed 7 days ago



4b9a6c7



Copied main.c to main\_yiqiangji.c

yiqiangjizhang committed 7 days ago



4f99c2e



adios a.out	 Ivan-Sermanoukian committed 7 days ago	 ab7f437 
funciona con 1 p	 Ivan-Sermanoukian committed 7 days ago	 3fbc88f 
Rewritten printField	 yiqiangjizhang committed 7 days ago	 cdcb061 
Rewritten printField	 yiqiangjizhang committed 7 days ago	 6c5bb48 
memory matrix	 Ivan-Sermanoukian committed 7 days ago	 d6f765c 
mas bugs	 Ivan-Sermanoukian committed 7 days ago	 cedd92b 
Added Matlab Mandelbrot	 yiqiangjizhang committed 7 days ago	 c7d80ea 
Arreglo bugs del malloc	 Ivan-Sermanoukian committed 7 days ago	 3f61cbd 
Added Preliminary	 yiqiangjizhang committed 7 days ago	 f723cbd 
Added Preliminary	 yiqiangjizhang committed 7 days ago	 101f8d5 
mensaje	 Ivan-Sermanoukian committed 7 days ago	 ee21af7 
testnofunciona	 Ivan-Sermanoukian committed 8 days ago	 df0e748 
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 Ivan-Sermanoukian committed 8 days ago	 802a9b2 

## o- Commits on Mar 8, 2021

Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 yiqiangjizhang committed 9 days ago	 e1a2114 
Merge branch 'yiqiangji' into main	 yiqiangjizhang committed 9 days ago	 760c1cd 

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## yiqiangjizhang / Mandelbrot-Set Private

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alba ▾

-o- Commits on Mar 17, 2021

updating after classroom corrections

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 13 hours ago

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 13 hours ago

-o- Commits on Mar 16, 2021

Added Final version mandelbrot\_1D.c and output.csv

yiqiangjizhang committed yesterday

-o- Commits on Mar 15, 2021

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 2 days ago

updated file

Ivan-Sermanoukian committed 2 days ago

Reorganized main

yiqiangjizhang committed 2 days ago

Added second version test.c

yiqiangjizhang committed 3 days ago

-o- Commits on Mar 14, 2021

Added main\_mandelbrot\_1proc.c

yiqiangjizhang committed 3 days ago

Mandelbrot with 1 x

yiqiangjizhang committed 3 days ago

Updating Alba's branch

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 3 days ago

Added main Mandelbrot

yiqiangjizhang committed 3 days ago

good version

Ivan-Sermanoukian committed 3 days ago

Added main 1D

yiqiangjizhang committed 4 days ago

-o- Commits on Mar 13, 2021

v2

Ivan-Sermanoukian committed 4 days ago

v2

Ivan-Sermanoukian committed 4 days ago

v2

Ivan-Sermanoukian committed 4 days ago

Removed main.c

yiqiangjizhang committed 4 days ago

Main code with add

yiqiangjizhang committed 4 days ago

**Main code with add** yiqiangjizhang committed 4 days ago

511b09c

**commented main** Ivan-Sermanoukian committed 4 days ago

d5d4f14



## -o- Commits on Mar 12, 2021

**funciona indices** Ivan-Sermanoukian committed 5 days ago

9d39770

**Formatted and commented main code** yiqiangjizhang committed 5 days ago

4f48b6c

**Merge remote-tracking branch 'origin/angel' into yiqiangji** yiqiangjizhang committed 5 days ago

728a08e

**guay** angelp8 committed 5 days ago

7d4696a

**Formatted and commented main code** yiqiangjizhang committed 5 days ago

2406509

**hola** Ivan-Sermanoukian committed 5 days ago

c3af2f4

**Merge branch 'angel' of https://github.com/yiqiangjizhang/Mandelbrot-Set ...** Ivan-Sermanoukian committed 5 days ago

fe39d4f

**error raro** Ivan-Sermanoukian committed 5 days ago

b3cdb9d

**retocar sends** angelp8 committed 5 days ago

08c169b

**Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set ...** angelp8 committed 5 days ago

2701453

**Added Main** yiqiangjizhang committed 5 days ago

912e25b

**Main** yiqiangjizhang committed 5 days ago

f01b8f3

**main alba's branch** Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 6 days ago

b34a6fe

**Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set ...** yiqiangjizhang committed 6 days ago

5fd035c

**Deleting alba's branch unuseful files** Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 6 days ago

58e42d2

[Newer](#) [Older](#)

#### 4.3 Angel branch

## yiqiangjizhang / Mandelbrot-Set Private

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angel ▾

-o Commits on Mar 8, 2021

Main file

yiqiangjizhang committed 9 days ago

b6cb0cc

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

60e09e5

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

angelpan8 committed 9 days ago

0bf5869

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

9f96dfa

example

Ivan-Sermanoukian committed 9 days ago

c5b0a6a

main\_angel

angelpan8 committed 9 days ago

54f8cc7

Copying from the example

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

fc70df4

main\_angel

angelpan8 committed 9 days ago

2a45c80

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Ivan-Sermanoukian committed 9 days ago

cc16032

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

yiqiangjizhang committed 9 days ago

49e9c97

main\_ivan\_creation

Ivan-Sermanoukian committed 9 days ago

fdd233a

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Ivan-Sermanoukian committed 9 days ago

26a2ceb

Merge branch 'yiqiangji' into main

yiqiangjizhang committed 9 days ago

a1cff7b

main\_creation

Ivan-Sermanoukian committed 9 days ago

1038de4

Main file (yiqiang)

yiqiangjizhang committed 9 days ago

a4643d1

Creating main\_alba.c

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

c0814e0

Removed test files

yiqiangjizhang committed 9 days ago

55dc23b

-o Commits on Mar 7, 2021

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

755effb

Test Alba merge

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

05726e6

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

angelpan8 committed 10 days ago

327c161

Merge branch 'ivan' into main

Ivan-Sermanoukian committed 10 days ago

4842030

Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set... 	 e7d263b 
 Ivan-Sermanoukian committed 10 days ago	
test2_angel	 9025c23 
 angelpan8 committed 10 days ago	
Added git merge (yq)	 91ae6cc 
 yiqiangjizhang committed 10 days ago	
Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set... 	 9799507 
 Ivan-Sermanoukian committed 10 days ago	
Testing merge alba	 9472fd1 
 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago	
Added git pull test (yiqiang)	 74e9aea 
 yiqiangjizhang committed 10 days ago	
Test alba branch	 2021d5f 
 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago	
testv2	 1ac21e9 
 Ivan-Sermanoukian committed 10 days ago	
test Alba	 9d1f475 
 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago	
test_angel	 a61e9e6 
 angelpan8 committed 10 days ago	
test2	 e9cdf1a 
 Ivan-Sermanoukian committed 10 days ago	
testing ivan	 95c9ae0 
 Ivan-Sermanoukian committed 10 days ago	
Branch test	 2195733 
 yiqiangjizhang committed 10 days ago	
Readme.md	 90c0da9 
 yiqiangjizhang committed 10 days ago	

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## yiqiangjizhang / Mandelbrot-Set Private

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angel ▾

-o Commits on Mar 12, 2021

### main update

 Ivan-Sermanoukian committed 6 days ago

### estructura

 Ivan-Sermanoukian committed 6 days ago

-o Commits on Mar 11, 2021

### Removed personal mains

 yiqiangjizhang committed 6 days ago

### foravscode

 angelpan8 committed 6 days ago

### foravscode

 angelpan8 committed 6 days ago

### Merge branch 'angel' into main

 angelpan8 committed 6 days ago

### reorganitzacio

 angelpan8 committed 6 days ago

### test

 angelpan8 committed 6 days ago

### Main code from Angel

 yiqiangjizhang committed 6 days ago

### moltmillo

 angelpan8 committed 6 days ago

### bieen

 angelpan8 committed 6 days ago

### algo

 angelpan8 committed 6 days ago

### worksplit\_nice

 angelpan8 committed 6 days ago

### Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelpan8 committed 6 days ago

### info para angel

 Ivan-Sermanoukian committed 6 days ago

### Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelpan8 committed 6 days ago

-o Commits on Mar 10, 2021

### copy del main

 Ivan-Sermanoukian committed 7 days ago

### changes

 Ivan-Sermanoukian committed 7 days ago

### Copied main.c to main\_yiqiangji.c

 yiqiangjizhang committed 7 days ago

### adios a.out

 Ivan-Sermanoukian committed 7 days ago

funciona con 1 p	 Ivan-Sermanoukian committed 7 days ago	 3fbc88f 
Rewritten printField	 yiqiangjizhang committed 7 days ago	 cdcb061 
Rewritten printField	 yiqiangjizhang committed 7 days ago	 6c5bb48 
memory matrix	 Ivan-Sermanoukian committed 7 days ago	 d6f765c 
mas bugs	 Ivan-Sermanoukian committed 7 days ago	 cedd92b 
Added Matlab Mandelbrot	 yiqiangjizhang committed 7 days ago	 c7d80ea 
Arreglo bugs del malloc	 Ivan-Sermanoukian committed 7 days ago	 3f61cbd 
Added Preliminary	 yiqiangjizhang committed 7 days ago	 f723cbd 
Added Preliminary	 yiqiangjizhang committed 7 days ago	 101f8d5 
mensaje	 Ivan-Sermanoukian committed 7 days ago	 ee21af7 
testnofunciona	 Ivan-Sermanoukian committed 8 days ago	 df0e748 
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 Ivan-Sermanoukian committed 8 days ago	 802a9b2 

-o- Commits on Mar 8, 2021

Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 yiqiangjizhang committed 9 days ago	 e1a2114 
Merge branch 'yiqiangji' into main	 yiqiangjizhang committed 9 days ago	 760c1cd 
Create Map	 yiqiangjizhang committed 9 days ago	 b49e15c 

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## yiqiangjizhang / Mandelbrot-Set Private

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angel ▾

-o Commits on Mar 17, 2021

Updating after class corrections

 angelpan8 committed 13 hours ago



95e5bbf



-o Commits on Mar 16, 2021

Added Final version mandelbrot\_1D.c and output.csv

 yiqiangjizhang committed yesterday



278c711



-o Commits on Mar 15, 2021

bo

 angelpan8 committed 2 days ago



a4e1be3



updated file

 Ivan-Sermanoukian committed 2 days ago



91219e5



Reorganized main

 yiqiangjizhang committed 2 days ago



8900a3f



Added second version test.c

 yiqiangjizhang committed 3 days ago



b8bb17e



-o Commits on Mar 14, 2021

Added main\_mandelbrot\_1proc.c

 yiqiangjizhang committed 3 days ago



a0a777b



Mandelbrot with 1 x

 yiqiangjizhang committed 3 days ago



4009c5a



nicenice

 angelpan8 committed 3 days ago



039712d



supernice

 angelpan8 committed 3 days ago



10d24ea



Added main Mandelbrot

 yiqiangjizhang committed 3 days ago



df55f72



nice

 angelpan8 committed 3 days ago



d86a95f



good version

 Ivan-Sermanoukian committed 3 days ago



6f43f9d



Added main 1D

 yiqiangjizhang committed 4 days ago



fecb69d



-o Commits on Mar 13, 2021

v2

 Ivan-Sermanoukian committed 4 days ago



bc33966



v2

 Ivan-Sermanoukian committed 4 days ago



8d4688b



v2

 Ivan-Sermanoukian committed 4 days ago



008f9bd



Removed main.c

 yiqiangjizhang committed 4 days ago



96cf66f



**Main code with add** yiqiangjizhang committed 4 days ago ac22344 **Main code with add** yiqiangjizhang committed 4 days ago 511b09c **commented main** Ivan-Sermanoukian committed 4 days ago d5d4f14 

## -o- Commits on Mar 12, 2021

**funciona indices** Ivan-Sermanoukian committed 5 days ago 9d39770 **Formatted and commented main code** yiqiangjizhang committed 5 days ago 4f48b6c **Merge remote-tracking branch 'origin/angel' into yiqiangji** yiqiangjizhang committed 5 days ago 728a08e **guay** angelpan8 committed 5 days ago 7d4696a **Formatted and commented main code** yiqiangjizhang committed 5 days ago 2406509 **hola** Ivan-Sermanoukian committed 5 days ago c3af2f4 **Merge branch 'angel' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** Ivan-Sermanoukian committed 5 days ago fe39d4f **error raro** Ivan-Sermanoukian committed 5 days ago b3cdb9d **retocar sends** angelpan8 committed 5 days ago 08c169b **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** angelpan8 committed 5 days ago 2701453 **Added Main** yiqiangjizhang committed 5 days ago 912e25b **Main** yiqiangjizhang committed 5 days ago f01b8f3 **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** yiqiangjizhang committed 6 days ago 5fd035c **upload** Ivan-Sermanoukian committed 6 days ago 293af2d  Newer  Older

#### 4.4 Iván branch

## yiqiangjizhang / Mandelbrot-Set Private

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by ivan ▾

### -o Commits on Mar 8, 2021

#### Main file

yiqiangjizhang committed 9 days ago

[Copy](#) [b6cb0cc](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

[Copy](#) [60e09e5](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

angelp8 committed 9 days ago

[Copy](#) [0bf5869](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

[Copy](#) [9f96dfa](#) [Compare](#)

#### example

Ivan-Sermanoukian committed 9 days ago

[Copy](#) [c5b0a6a](#) [Compare](#)

#### main\_angel

angelp8 committed 9 days ago

[Copy](#) [54f8cc7](#) [Compare](#)

#### Copying from the example

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

[Copy](#) [fc70df4](#) [Compare](#)

#### main\_angel

angelp8 committed 9 days ago

[Copy](#) [2a45c80](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Ivan-Sermanoukian committed 9 days ago

[Copy](#) [cc16032](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

yiqiangjizhang committed 9 days ago

[Copy](#) [49e9c97](#) [Compare](#)

#### main\_ivan\_creation

Ivan-Sermanoukian committed 9 days ago

[Copy](#) [fdd233a](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Ivan-Sermanoukian committed 9 days ago

[Copy](#) [26a2ceb](#) [Compare](#)

#### Merge branch 'yiqiangji' into main

yiqiangjizhang committed 9 days ago

[Copy](#) [a1cff7b](#) [Compare](#)

#### main\_creation

Ivan-Sermanoukian committed 9 days ago

[Copy](#) [1038de4](#) [Compare](#)

#### Main file (yiqiang)

yiqiangjizhang committed 9 days ago

[Copy](#) [a4643d1](#) [Compare](#)

#### Creating main\_alba.c

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago

[Copy](#) [c0814e0](#) [Compare](#)

#### Removed test files

yiqiangjizhang committed 9 days ago

[Copy](#) [55dc23b](#) [Compare](#)

### -o Commits on Mar 7, 2021

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

[Copy](#) [755effb](#) [Compare](#)

#### Test Alba merge

Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago

[Copy](#) [05726e6](#) [Compare](#)

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

angelp8 committed 10 days ago

[Copy](#) [327c161](#) [Compare](#)

#### Merge branch 'ivan' into main

Ivan-Sermanoukian committed 10 days ago

[Copy](#) [4842030](#) [Compare](#)

Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...	...		e7d263b	
Ivan-Sermanoukian committed 10 days ago				
test2_angel			9025c23	
angelpan8 committed 10 days ago				
Added git merge (yq)			91ae6cc	
yiqiangjizhang committed 10 days ago				
Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set...	...		9799507	
Ivan-Sermanoukian committed 10 days ago				
Testing merge alba			9472fd1	
Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago				
Added git pull test (yiqiang)			74e9aea	
yiqiangjizhang committed 10 days ago				
Test alba branch			2021d5f	
Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago				
testv2			1ac21e9	
Ivan-Sermanoukian committed 10 days ago				
test Alba			9d1f475	
Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago				
test_angel			a61e9e6	
angelpan8 committed 10 days ago				
test2			e9cdf1a	
Ivan-Sermanoukian committed 10 days ago				
testing ivan			95c9ae0	
Ivan-Sermanoukian committed 10 days ago				
Branch test			2195733	
yiqiangjizhang committed 10 days ago				
Readme.md			90c0da9	
yiqiangjizhang committed 10 days ago				

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by ivan ▾

-o Commits on Mar 12, 2021

### main update

 Ivan-Sermanoukian committed 6 days ago

### estructura

 Ivan-Sermanoukian committed 6 days ago

-o Commits on Mar 11, 2021

### Removed personal mains

 yiqiangjizhang committed 6 days ago

### foravscode

 angelpan8 committed 6 days ago

### foravscode

 angelpan8 committed 6 days ago

### Merge branch 'angel' into main

 angelpan8 committed 6 days ago

### reorganitzacio

 angelpan8 committed 6 days ago

### test

 angelpan8 committed 6 days ago

### Main code from Angel

 yiqiangjizhang committed 6 days ago

### moltmillo

 angelpan8 committed 6 days ago

### bieen

 angelpan8 committed 6 days ago

### algo

 angelpan8 committed 6 days ago

### worksplit\_nice

 angelpan8 committed 6 days ago

### Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelpan8 committed 6 days ago

### info para angel

 Ivan-Sermanoukian committed 6 days ago

### Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelpan8 committed 6 days ago

-o Commits on Mar 10, 2021

### copy del main

 Ivan-Sermanoukian committed 7 days ago

### changes

 Ivan-Sermanoukian committed 7 days ago

### Copied main.c to main\_yiqiangji.c

 yiqiangjizhang committed 7 days ago

### adios a.out

 Ivan-Sermanoukian committed 7 days ago

funciona con 1 p	 3fbc88f	
 Ivan-Sermanoukian committed 7 days ago		
Rewritten printField	 cdcb061	
 yiqiangjizhang committed 7 days ago		
Rewritten printField	 6c5bb48	
 yiqiangjizhang committed 7 days ago		
memory matrix	 d6f765c	
 Ivan-Sermanoukian committed 7 days ago		
mas bugs	 cedd92b	
 Ivan-Sermanoukian committed 7 days ago		
Added Matlab Mandelbrot	 c7d80ea	
 yiqiangjizhang committed 7 days ago		
Arreglo bugs del malloc	 3f61cbd	
 Ivan-Sermanoukian committed 7 days ago		
Added Preliminary	 f723cbd	
 yiqiangjizhang committed 7 days ago		
Added Preliminary	 101f8d5	
 yiqiangjizhang committed 7 days ago		
mensaje	 ee21af7	
 Ivan-Sermanoukian committed 7 days ago		
testnofunciona	 df0e748	
 Ivan-Sermanoukian committed 8 days ago		
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 802a9b2	
 Ivan-Sermanoukian committed 8 days ago		

-o- Commits on Mar 8, 2021

Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 e1a2114	
 yiqiangjizhang committed 9 days ago		
Merge branch 'yiqiangji' into main	 760c1cd	
 yiqiangjizhang committed 9 days ago		
Create Map	 b49e15c	
 yiqiangjizhang committed 9 days ago		

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by ivan ▾

-o- Commits on Mar 17, 2021

1d

 Ivan-Sermanoukian committed 5 hours ago

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Ivan-Sermanoukian committed 6 hours ago

map

 Ivan-Sermanoukian committed 6 hours ago

Mandelbrot 1D

 yiqiangjizhang committed 7 hours ago

Mandelbrot 1D

 yiqiangjizhang committed 10 hours ago

-o- Commits on Mar 16, 2021

Added Final version mandelbrot\_1D.c and output.csv

 yiqiangjizhang committed yesterday

-o- Commits on Mar 15, 2021

updated file

 Ivan-Sermanoukian committed 2 days ago

Reorganized main

 yiqiangjizhang committed 2 days ago

Added second version test.c

 yiqiangjizhang committed 3 days ago

-o- Commits on Mar 14, 2021

Added main\_mandelbrot\_1proc.c

 yiqiangjizhang committed 3 days ago

Mandelbrot with 1 x

 yiqiangjizhang committed 3 days ago

Added main Mandelbrot

 yiqiangjizhang committed 3 days ago

good version

 Ivan-Sermanoukian committed 4 days ago

Added main 1D

 yiqiangjizhang committed 4 days ago

-o- Commits on Mar 13, 2021

v2

 Ivan-Sermanoukian committed 4 days ago

v2

 Ivan-Sermanoukian committed 4 days ago

v2

 Ivan-Sermanoukian committed 4 days ago

Removed main.c

 yiqiangjizhang committed 4 days ago

**Main code with add** yiqiangjizhang committed 4 days ago ac22344 **Main code with add** yiqiangjizhang committed 4 days ago 511b09c **commented main** Ivan-Sermanoukian committed 4 days ago d5d4f14 

## -o- Commits on Mar 12, 2021

**funciona indices** Ivan-Sermanoukian committed 5 days ago 9d39770 **Formatted and commented main code** yiqiangjizhang committed 5 days ago 4f48b6c **Merge remote-tracking branch 'origin/angel' into yiqiangji** yiqiangjizhang committed 5 days ago 728a08e **guay** angelpan8 committed 5 days ago 7d4696a **Formatted and commented main code** yiqiangjizhang committed 5 days ago 2406509 **hola** Ivan-Sermanoukian committed 5 days ago c3af2f4 **Merge branch 'angel' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** Ivan-Sermanoukian committed 5 days ago fe39d4f **error raro** Ivan-Sermanoukian committed 5 days ago b3cdb9d **retocar sends** angelpan8 committed 5 days ago 08c169b **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** angelpan8 committed 5 days ago 2701453 **Added Main** yiqiangjizhang committed 5 days ago 912e25b **Main** yiqiangjizhang committed 6 days ago f01b8f3 **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** yiqiangjizhang committed 6 days ago 5fd035c **upload** Ivan-Sermanoukian committed 6 days ago 293af2d  Newer  Older

#### 4.5 Yi Qiang branch

## ↪ yiqiangjizhang / Mandelbrot-Set Private

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↪ yiqiangji ▾

-o Commits on Mar 8, 2021

Main file

 yiqiangjizhang committed 9 days ago



b6cb0cc



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



60e09e5



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelp8 committed 9 days ago



0bf5869



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



9f96dfa



example

 Ivan-Sermanoukian committed 9 days ago



c5b0a6a



main\_angel

 angelp8 committed 9 days ago



54f8cc7



Copying from the example

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



fc70df4



main\_angel

 angelp8 committed 9 days ago



2a45c80



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Ivan-Sermanoukian committed 9 days ago



cc16032



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 yiqiangjizhang committed 9 days ago



49e9c97



main\_ivan\_creation

 Ivan-Sermanoukian committed 9 days ago



fdd233a



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Ivan-Sermanoukian committed 9 days ago



26a2ceb



Merge branch 'yiqiangji' into main

 yiqiangjizhang committed 9 days ago



a1cff7b



main\_creation

 Ivan-Sermanoukian committed 9 days ago



1038de4



Main file (yiqiang)

 yiqiangjizhang committed 9 days ago



a4643d1



Creating main\_alba.c

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 9 days ago



c0814e0



Removed test files

 yiqiangjizhang committed 9 days ago



55dc23b



-o Commits on Mar 7, 2021

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago



755effb



Test Alba merge

 Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago



05726e6



Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelp8 committed 10 days ago



327c161



Merge branch 'ivan' into main

 Ivan-Sermanoukian committed 10 days ago



4842030



Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set... <a href="#">...</a>	<a href="#"></a>	e7d263b	<a href="#"></a>
Ivan-Sermanoukian committed 10 days ago			
test2_angel	<a href="#"></a>	9025c23	<a href="#"></a>
angelpan8 committed 10 days ago			
Added git merge (yq)	<a href="#"></a>	91ae6cc	<a href="#"></a>
yiqiangjizhang committed 10 days ago			
Merge branch 'main' of https://github.com/yiqiangjizhang/Mandelbrot-Set... <a href="#">...</a>	<a href="#"></a>	9799507	<a href="#"></a>
Ivan-Sermanoukian committed 10 days ago			
Testing merge alba	<a href="#"></a>	9472fd1	<a href="#"></a>
Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago			
Added git pull test (yiqiang)	<a href="#"></a>	74e9aea	<a href="#"></a>
yiqiangjizhang committed 10 days ago			
Test alba branch	<a href="#"></a>	2021d5f	<a href="#"></a>
Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago			
testv2	<a href="#"></a>	1ac21e9	<a href="#"></a>
Ivan-Sermanoukian committed 10 days ago			
test Alba	<a href="#"></a>	9d1f475	<a href="#"></a>
Alba Molina Cuadrado authored and Alba Molina Cuadrado committed 10 days ago			
test_angel	<a href="#"></a>	a61e9e6	<a href="#"></a>
angelpan8 committed 10 days ago			
test2	<a href="#"></a>	e9cdf1a	<a href="#"></a>
Ivan-Sermanoukian committed 10 days ago			
testing ivan	<a href="#"></a>	95c9ae0	<a href="#"></a>
Ivan-Sermanoukian committed 10 days ago			
Branch test	<a href="#"></a>	2195733	<a href="#"></a>
yiqiangjizhang committed 10 days ago			
Readme.md	<a href="#"></a>	90c0da9	<a href="#"></a>
yiqiangjizhang committed 10 days ago			

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## ↪ yiqiangjizhang / Mandelbrot-Set Private

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↪ yiqiangji ▾

-o Commits on Mar 12, 2021

### main update

 Ivan-Sermanoukian committed 6 days ago

### estructura

 Ivan-Sermanoukian committed 6 days ago

-o Commits on Mar 11, 2021

### Removed personal mains

 yiqiangjizhang committed 6 days ago

### foravscode

 angelpan8 committed 6 days ago

### foravscode

 angelpan8 committed 6 days ago

### Merge branch 'angel' into main

 angelpan8 committed 6 days ago

### reorganitzacio

 angelpan8 committed 6 days ago

### test

 angelpan8 committed 6 days ago

### Main code from Angel

 yiqiangjizhang committed 6 days ago

### moltmillor

 angelpan8 committed 6 days ago

### bieen

 angelpan8 committed 6 days ago

### algo

 angelpan8 committed 6 days ago

### worksplit\_nice

 angelpan8 committed 6 days ago

### Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelpan8 committed 6 days ago

### info para angel

 Ivan-Sermanoukian committed 6 days ago

### Merge branch 'ivan' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> ...

 angelpan8 committed 6 days ago

-o Commits on Mar 10, 2021

### copy del main

 Ivan-Sermanoukian committed 7 days ago

### changes

 Ivan-Sermanoukian committed 7 days ago

### Copied main.c to main\_yiqiangji.c

 yiqiangjizhang committed 7 days ago

### adios a.out

 Ivan-Sermanoukian committed 7 days ago

funciona con 1 p	 Ivan-Sermanoukian committed 7 days ago	 <a href="#">3fbc88f</a> 
Rewritten printField	 yiqiangjizhang committed 7 days ago	 <a href="#">cdcb061</a> 
Rewritten printField	 yiqiangjizhang committed 7 days ago	 <a href="#">6c5bb48</a> 
memory matrix	 Ivan-Sermanoukian committed 7 days ago	 <a href="#">d6f765c</a> 
mas bugs	 Ivan-Sermanoukian committed 7 days ago	 <a href="#">cedd92b</a> 
Added Matlab Mandelbrot	 yiqiangjizhang committed 7 days ago	 <a href="#">c7d80ea</a> 
Arreglo bugs del malloc	 Ivan-Sermanoukian committed 7 days ago	 <a href="#">3f61cbd</a> 
Added Preliminary	 yiqiangjizhang committed 7 days ago	 <a href="#">f723cbd</a> 
Added Preliminary	 yiqiangjizhang committed 7 days ago	 <a href="#">101f8d5</a> 
mensaje	 Ivan-Sermanoukian committed 7 days ago	 <a href="#">ee21af7</a> 
testnofunciona	 Ivan-Sermanoukian committed 8 days ago	 <a href="#">df0e748</a> 
Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 Ivan-Sermanoukian committed 8 days ago	 <a href="#">802a9b2</a> 

-o- Commits on Mar 8, 2021

Merge branch 'main' of <a href="https://github.com/yiqiangjizhang/Mandelbrot-Set...">https://github.com/yiqiangjizhang/Mandelbrot-Set...</a>	 yiqiangjizhang committed 9 days ago	 <a href="#">e1a2114</a> 
Merge branch 'yiqiangji' into main	 yiqiangjizhang committed 9 days ago	 <a href="#">760c1cd</a> 
Create Map	 yiqiangjizhang committed 9 days ago	 <a href="#">b49e15c</a> 

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## yiqiangjizhang / Mandelbrot-Set Private

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 [yiqiangji](#) [▼](#)

-o- Commits on Mar 17, 2021

### Flowchart

 [yiqiangjizhang](#) committed 4 hours ago

Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set...> [...](#)

 [Ivan-Sermanoukian](#) committed 6 hours ago

### map

 [Ivan-Sermanoukian](#) committed 6 hours ago

### Mandelbrot 1D

 [yiqiangjizhang](#) committed 7 hours ago

### Mandelbrot 1D

 [yiqiangjizhang](#) committed 10 hours ago

-o- Commits on Mar 16, 2021

### Added Final version mandelbrot\_1D.c and output.csv

 [yiqiangjizhang](#) committed yesterday

-o- Commits on Mar 15, 2021

### updated file

 [Ivan-Sermanoukian](#) committed 2 days ago

### Reorganized main

 [yiqiangjizhang](#) committed 2 days ago

### Added second version test.c

 [yiqiangjizhang](#) committed 3 days ago

-o- Commits on Mar 14, 2021

### Added main\_mandelbrot\_1proc.c

 [yiqiangjizhang](#) committed 3 days ago

### Mandelbrot with 1 x

 [yiqiangjizhang](#) committed 3 days ago

### Added main Mandelbrot

 [yiqiangjizhang](#) committed 3 days ago

### good version

 [Ivan-Sermanoukian](#) committed 4 days ago

### Added main 1D

 [yiqiangjizhang](#) committed 4 days ago

-o- Commits on Mar 13, 2021

### v2

 [Ivan-Sermanoukian](#) committed 4 days ago

### v2

 [Ivan-Sermanoukian](#) committed 4 days ago

### v2

 [Ivan-Sermanoukian](#) committed 4 days ago

### Removed main.c

 [yiqiangjizhang](#) committed 4 days ago

**Main code with add** yiqiangjizhang committed 4 days ago ac22344 **Main code with add** yiqiangjizhang committed 4 days ago 511b09c **commented main** Ivan-Sermanoukian committed 4 days ago d5d4f14 

## -o- Commits on Mar 12, 2021

**funciona indices** Ivan-Sermanoukian committed 5 days ago 9d39770 **Formatted and commented main code** yiqiangjizhang committed 5 days ago 4f48b6c **Merge remote-tracking branch 'origin/angel' into yiqiangji** yiqiangjizhang committed 5 days ago 728a08e **guay** angelpan8 committed 5 days ago 7d4696a **Formatted and commented main code** yiqiangjizhang committed 5 days ago 2406509 **hola** Ivan-Sermanoukian committed 5 days ago c3af2f4 **Merge branch 'angel' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** Ivan-Sermanoukian committed 5 days ago fe39d4f **error raro** Ivan-Sermanoukian committed 5 days ago b3cdb9d **retocar sends** angelpan8 committed 5 days ago 08c169b **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** angelpan8 committed 5 days ago 2701453 **Added Main** yiqiangjizhang committed 5 days ago 912e25b **Main** yiqiangjizhang committed 6 days ago f01b8f3 **Merge branch 'main' of <https://github.com/yiqiangjizhang/Mandelbrot-Set> ...** yiqiangjizhang committed 6 days ago 5fd035c **upload** Ivan-Sermanoukian committed 6 days ago 293af2d  Newer  Older

## References

- [1] Soria, Manel. “Multidimensional arrays”. In: 1st ed. UPC, 2021, pp. 1–17.